

MATERIAL SAFETY DATA SHEET

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Revision nr : 1

Date : 8/10/2004

Supersedes : 0/0/0

HYDRO HLP HM 100

ARD044100

www.lisam.com

Producer

NV VROMAN

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1. Identification of the product and the company

Identification of the product : Oily liquid.
Use : Automobile industry
Company identification : See producer or distributor.

2. Hazards identification

Symptoms relating to use

- Inhalation : Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
- Skin contact : Not expected to present a significant skin hazard under anticipated conditions of normal use.
- Eye contact : Not expected to present a significant eye contact hazard under anticipated conditions of normal use.
- Ingestion : Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

3. Information on ingredients

This product is not considered to be hazardous but contains hazardous components, Directive 1999/45/EG.

4. First aid measures

First aid

- Inhalation : Not expected to require first aid measures.
- Skin contact : Wash skin thoroughly with mild soap and water.
- Eye contact : In case of eye contact, immediately rinse with clean water for 10-15 minutes.
- Ingestion : DO NOT INDUCE VOMITING.
Rinse mouth.
Seek medical attention immediately.

5. Fire - fighting measures

Prevention : No smoking.
Extinguishing media : Foam.
Dry chemical.
Carbon dioxide.
Special procedures : Exercise caution when fighting any chemical fire.

6. Accidental release measures

Personal precautions : No smoking.
After spillage and/or leakage : Spill area may be slippery. Dike for recovery or absorb with appropriate material.
Use suitable disposal containers.

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7. Handling and storage

General	: No naked flames. No smoking.
Storage	: Keep at temperature not exceeding 40°C Store in dry, well-ventilated area.
Handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking or when leaving work.
Transport temperature	: Keep at temperature not exceeding 40°C

8. Exposure controls / personal protection

Personal protection	
- Respiratory protection	: No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation.
- Skin protection	: No special clothing/skin protection equipment is recommended under normal conditions of use.
- Eye protection	: Goggles.
- Ingestion	: When using, do not eat, drink or smoke.
Industrial hygiene	: No special protection required where adequate ventilation is maintained.
Occupational Exposure Limits	: 5 mg/m ³ for oil mists (TWA, 8h-workday) recommended, based upon the ACGIH TLV (Analysis according to US NIOSH Method 5026, NIOSH Manual of Analytical Methods, 3rd Edition).

9. Physical and chemical properties

Physical state	: Oily liquid.
Colour	: Yellow-brown.
Odour	: Oil.
pH value	: Not applicable.
Density [g/dm ³]	: 887
Vapour density (101.3 kPa/air=1)	: >12
Viscosity at 40°C [mm ² /s]	: 100
Solubility in water	: Negligible.
Flash point [°C] (ASTM D 92)	: >220
Auto-ignition temperature [°C]	: No data available.
Explosion limits (vol% in air)	: LEL: 1.0 UEL: 6.0
Log P octanol / water at 20°C	: No data available.

10. Stability and reactivity

Hazardous decomposition products	: None under normal conditions.
Hazardous reactions	: None under normal conditions.
Hazardous properties	: None under normal conditions.
Materials to avoid	: Strong oxidizers. Acids. Bases.

11. Toxicological information

Rat oral LD50 [mg/kg]	: No data available.
Inhalation	: Negligible hazard at ambient/normal handling temperatures. Elevated temperatures or mechanical action may form vapours, mists, or fumes, which may be irritating to the nose, throat and lungs.
Skin contact	: Repeated or prolonged skin contact may cause irritation.

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11. Toxicological information (continued)

Eye contact : Slightly irritant, does not damage eye tissue
Ingestion : Low level of acute/systematic toxicity.
Minute amounts aspirated into the lungs during ingestion or vomiting may cause severe pulmonary injury and death.

12. Ecological information

Persistence and degradability : Not soluble in water, so only minimally biodegradable.

13. Disposal considerations

Disposal : Dispose in a safe manner in accordance with local/national regulations.

14. Transport information

General information : Not regulated.

15. Regulatory information

Symbol(s) : None.
R Phrase(s) : None.
S Phrase(s) : None.

16. Other information

Further information : Revision - See : *
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The contents and format of this MSDS are in accordance with EEC Commission Directive 2001/58/EC.

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