

MORRIS LUBRICANTS

Castle Foregate, Shrewsbury, Shropshire SY1 2EL
Telephone (01743) 232200 Fax (01743) 353584
www.morrislubricants.co.uk

Triad & Liquimatic
HV Oils
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Number 203
Revision: 3
12.01.04

Safety data sheet

1. PRODUCT INFORMATION

Product Name Triad, Liquimatic HV and HD Hydraulic oils.
Application **Hydraulic Oil and machine lubricants**
Company **Morris Lubricants**
Address **Castle Foregate, Shrewsbury, SY1 2EL, United Kingdom**
Telephone No (+44) (0)1743 232200
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2. COMPOSITION

Name	CAS No.	% Mass	Symbols/OEL	R Phrases
Severely refined mineral oil (IP 346 DMSO extract <3%)	mixture	60-100	OEL	-----
Zinc dialkyldithiophosphate	Mixture	0.1-1.0	Xi.N	R36 , R51/53
Synthetic neutral calcium Petroleum sulphonate	Mixture	0.1-1.0		R52

3. HAZARDS

Health Hazard Repeated contact with the skin may result in skin irritation. If vapours are generated from heating of oil, mist may cause mild irritation, to eyes and respiratory system.

Other Hazards Large spills may cause contamination of soil and water.

4. FIRST AID MEASURES

Inhalation If inhalation of mist fumes or vapour causes irritation to the nose or throat or coughing remove to fresh air. If symptoms persist obtain medical advice.

Skin contact Remove contaminated clothing. Wash skin thoroughly using soap and water.

Eye contact Rinse with plenty of water (also under eyelids) for at least 10 minutes and seek medical attention if symptoms persist.

Ingestion Seek medical attention if discomfort continues. **DO NOT INDUCE VOMITING.**



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Established 1869

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5. FIRE-FIGHTING MEASURES

Extinguishing Media	Use carbon dioxide, foam or water spray. Prevent water used in spray from entering watercourses.
Not to be used	Direct water jet. (Use water only to keep fire exposed containers cool.)
Special fire fighting procedures	In the event of a large fire self-contained breathing apparatus should be worn.
WARNING	Heat from a fire could possible result in drums bursting.

6. ACCIDENTAL RELEASE MEASURES

Contain and collect spillage with help of absorbent materials such as floor granules. Protect drains from potential spills to minimise contamination.
If spillage enters drains call Environment Agency Emergency hotline on 0800 807060.
Product waste should be disposed of according to Item 13.

7. HANDLING & STORAGE

Handling	Precautions should be taken against skin and eye contact. Avoid inhalation of vapour mist or fume. Do not wear contaminated clothing. Wear safety shoes when handling containers.
Storage	Store away from sources of strong heat and strong oxidising chemicals. Keep containers tightly closed in a cool dry, well ventilated place. Take precautionary measures to prevent spills into drains, soil or water. External tanks or stillage should be banded.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

Engineering Measures

Ensure good ventilation. Use protective equipment and/or local ventilation when needed.
Avoid skin contact and inhalation of oil mist.

Exposure Values	Comply with current local occupation exposure limit. It is recommended that mineral oil mists are kept below $5\text{mg}/\text{m}^3$ (8hr T.W.A. value) EH40.
Protection and Hygiene	Wash hands before breaks and immediately after handling the product. Thoroughly clean contaminated skin and change dirty clothing and equipment.
Respiratory Protection	Oil Mist : respirator (combined particle and organic vapour filter type A2/P2)



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Hand Protection

Protective gloves (PVC, Nitrile rubber). For further information consult glove manufacturer for recommendations of glove type associated with your particular application, so that breakthrough times can be assessed.
Show this data sheet

Eye Protection

Safety goggles if there is a risk of splashing

Skin Protection

Protective clothing when needed.

9. PHYSICAL & CHEMICAL PROPERTIES: typical data

Appearance at 20°C	Mobile liquid
Odour	Oil
pH	Neutral
Density at 15°C	0.86 to 0.89g/cm ³
Viscosity at 40°C	See Data Sheet
Flash Point (ASTM D93)	Greater than 150°C
Auto-ignition temperature	Greater than 300°C (by analogy)
Explosion Limits	Not established
Vapour pressure 20°C	<0.1 kPa
Solubility	Insoluble in water. <0.1 g/l Soluble in mineral oils and non-polar solvents.

10. STABILITY & REACTIVITY

Hazardous Reactions Products of this type are stable and unlikely to react in a hazardous manner under normal conditions of use.

Thermal Decomposition This material is combustible.

Hazardous decomposition products, which can be formed on heating: Carbon monoxide, carbon dioxide, oxides of nitrogen and sulphur.

11. TOXICOLOGICAL INFORMATION

Eyes	Unlikely to cause more than transient stinging or redness if accidental eye contact occurs.
Skin	Unlikely to cause harm to the skin on brief or occasional contact but prolonged or repeated exposure may lead to dermatitis.
Inhalation	At normal ambient temperatures is unlikely to cause inhalation hazard because of low volatility.



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Ingestion	Unlikely to cause harm if swallowed in small doses. Larger doses may cause nausea and diarrhoea.
Acute Toxicity	The refined mineral base oils used in this formulation are of low order of toxicity. LD50 (RAT) for base oil greater than 5g/kg.

12. ECOLOGICAL INFORMATION

Mobility	Product does not evaporate from surface soil or water. Some components may penetrate the soil causing ground water contamination.
Degradability	Inherently but not readily biodegradable.
Bio accumulation	No evidence to suggest bio-accumulation will occur.
Aquatic toxicity	Spills on water will form a film, which may cause damage to organisms.

13. DISPOSAL CONSIDERATION

Waste	Send to a Registered Waste Disposal Site using the services of a Registered Waste Disposal Contractor. Ensure conformance with local and national regulations.
Packaging	Labels should not be removed from containers until they have been cleaned. Empty containers may contain hazardous residues. Ensure conformance with local and national regulations.
Specific Advice	As supplied material should be considered as Special Waste and Disposal should conform with the relevant Regulations.
General	Under no circumstances should this product be disposed of by putting into drains soil or water courses.

14. TRANSPORT INFORMATION

Not classified as Hazardous for Transport.

U.N. Number:	N/A	Packaging Group:	N/A
Shipping Name:	N/A	Marine Pollutant:	No
IMO Class:	N/A	ICAO/IATA:	N/A
ADR/RID:	N/A		



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15. REGULATORY INFORMATION

This product is not classified for supply in the UK.

Statutory Instruments	The Health & Safety at Work Act 1974. Consumer Protection Act. Environmental Protection Act. COSHH Regulations CHIP Regulations.
Guidance	COSHH Essentials CHIP for everyone

16. OTHER INFORMATION

Concawe Report No: 5/87 'Health aspects of lubricants.'

R Phrases used in Section 2

R36	Irritating to eyes.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52	Harmful to aquatic organisms.

Original Issued date: 15.01.01
Revision: 3 Change Date: 12.01.04 Changes: Sections 2, 16

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