

MORRIS

LUBRICANTS

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

Synthetic
Compressor Oils
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Number 079
Revision: 3
31.03.05

Safety data sheet

1. PRODUCT INFORMATION

Product Name Synthetic Compressor Oils: Air Force 4000FS
Air Force 8000FS Series
Application The product is supplied as an synthetic compressor oil.
Company **Morris Lubricants**
Address **Castle Foregate, Shrewsbury, SY1 2EL, United Kingdom**
Telephone No (+44) (0)1743 232200
Fax No (+44) (0)1743 353584

2. COMPOSITION

Name	CAS No.	% Mass	Symbols	R Phrases	OEL
1,2,4-Benzenetricarboxylic acid, Triisodecyl ester	253-135-0	30-60	-	-	5mg/m ³
Hydrotreated paraffinic Hydrocarbons	276-738-4	30-60	-	-	5mg/m ³
Benzenepropanoic acid, 3,5-bis (1,1- dimethyl-ethyl)-4-hydroxy-C7, C9 branched alkyl esters	406-040-9	0.1-1.0	N	R51/53	
Sterically Hindered Phenol	Mixture	0.1-1.0	N	R51/53	

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 Wash from skin 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. **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.

Produce 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 break through 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	Mild
pH	Neutral
Density at 15°C	0.86 to 0.89g/cm ³
Viscosity at 40°C	See appropriate I.S.O value
Flash Point (ASTM D93)	Greater than 150°C
Auto-ignition temperature	Greater than 300°C
Explosion Limits	Not established
Vapour pressure 20°C	<0.1 kPa
Solubility	Insoluble in water. 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.
Ingestion	Unlikely to cause harm if accidentally swallowed in small doses, though larger quantities may cause nausea and diarrhoea
Inhalation	At normal ambient temperatures is unlikely to cause inhalation hazard because of low volatility.
Acute Toxicity	The synthetic base oils used in this formulation are of low order of toxicity. LD50 (RAT) for base oil greater than 5g/kg.



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12. ECOLOGICAL INFORMATION

Mobility	Product does not evaporate from 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		
IMO Class:	N/A	Marine Pollutant:	No
ADR/RID:	N/A	ICAO/IATA:	N/A

15. REGULATORY INFORMATION

Label for supply:	No label required
Risk Phases:	None
Safety Phases:	Safety data sheet available for professional user on request. S60 This material and its container must be disposed of as a hazardous waste.



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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

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Original Issued date: 22.04.2002
Revision: 3 Date: 31.03.05 Change: Sections 15, 16,

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