

SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier Product name Airforce 4000 ISO VG 100 Product number 7084 Internal identification GHS21478 n/a Mixture **REACH registration number** 1.2. Relevant identified uses of the substance or mixture and uses advised against Identified uses Air compressor oil Uses advised against Non specified unless otherwise stated within this MSDS 1.3. Details of the supplier of the safety data sheet Supplier Morris Lubricants **Castle Foregate** Shrewsbury SY1 2EL 08.45 - 17.00 GMT T: (+44)(0)1743 232200 F: (+44)(0)1743 353584 sds@morris-lubricants.co.uk 1.4. Emergency telephone number **Emergency telephone** +44(0)1743 232200 (08.45 - 17.00 GMT) **SECTION 2: Hazards identification** 2.1. Classification of the substance or mixture Classification Physical hazards Not Classified Health hazards Not Classified **Environmental hazards** Not Classified Classification (67/548/EEC or Not Classified 1999/45/EC) 2.2. Label elements Hazard statements NC Not Classified Supplemental label EUH210 Safety data sheet available on request. information 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

3.2. Mixtures		
Distillates, hydrotreated hea	vy paraffinic	60-1009
CAS number: 64742-54-7	EC number: 265-157-1	REACH registration number: 01- 2119484627-25-0014
Classification Not Classified	Classificatio	on (67/548/EEC or 1999/45/EC)
Distillates,hydrotreated heav	vy paraffinic	5-109
CAS number: 64742-54-7	EC number: 265-157-1	REACH registration number: 01- 2119484627-25-0014
Classification Not Classified	Classification (67/548/EEC or 1999/45/EC) -	
The Full Text for all R-Phrase	es and Hazard Statements are Displayed in Se	ection 16.
Composition comments	If REACH registration numbers do not apper registration, does not meet the minimum volume threshold for registration, the regist information is proprietary.	
SECTION 4: First aid measu	res	
4.1. Description of first aid m	easures	
General information	Get medical attention if any discomfort con	tinues.
nhalation		follows. Move affected person to fresh air and table for breathing. Get medical attention if any
ngestion	Get medical attention if any discomfort con	tinues. Do not induce vomiting.
Skin contact	Remove contaminated clothing immediately	y and wash skin with soap and water.
Eye contact		move any contact lenses and open eyelids wide utes. Get medical attention promptly if symptoms
1.2. Most important symptom	is and effects, both acute and delayed	
General information	If aspiration into the lungs is suspected, eg	when vomitting, admit to hospital immediately.
nhalation	Upper respiratory irritation.	
ngestion	May cause discomfort if swallowed. The protect the lungs through vomitting after ingestion,	oduct contains mineral oil, which if aspirated into may result in chemical pneumonia.
Skin contact	Prolonged contact may cause redness, irrit	ation and dry skin.
Eye contact	Irritation of eyes and mucous membranes.	
4.3. Indication of any immedi	ate medical attention and special treatment ne	eded

SECTION 5: Firefighting measures

5.1. Extinguishing media	
Suitable extinguishing media	Extinguish with foam, carbon dioxide, dry powder or water fog.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
5.2. Special hazards arising fro	om the substance or mixture
Specific hazards	Heat from fire could result in drums bursting
Hazardous combustion products	Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m3. Oxides of carbon. Oxides of nitrogen. Fire may also create other unidentified organic gases some of which may be toxic.
5.3. Advice for firefighters	
Protective actions during firefighting	Control run-off water by containing and keeping it out of sewers and watercourses.
Special protective equipment for firefighters	Wear self-contained breathing apparatus.
SECTION 6: Accidental release	e measures
6.1. Personal precautions, prot	ective equipment and emergency procedures
Personal precautions	For personal protection, see Section 8. In case of spills, beware of slippery floors and surfaces.
6.2. Environmental precautions)
Environmental precautions	Contain spillage with sand or earth. Avoid the spillage or runoff entering drains, sewers or watercourses. The product is insoluble in water and will spread on the water surface.
6.3. Methods and material for c	containment and cleaning up
Methods for cleaning up	Contain spillage with sand or earth. Collect spillage for reclamation or disposal in sealed containers via a licensed waste contractor. Avoid water contacting spilled material or leaking containers. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body. In case of spillage on water prevent the spread by use of suitable barrier equipment
6.4. Reference to other section	
Reference to other sections	For personal protection, see Section 8. See Section 11 for additional information on health hazards. For waste disposal, see section 13.
SECTION 7: Handling and stor	rage
7.1. Precautions for safe handl	ing
Usage precautions	Avoid spilling. Always remove oil with soap and water or skin cleaning agent, never use organic solvents. Do not use oil-contaminated clothing or shoes, and do not put rags moistened with oil into pockets.
7.2. Conditions for safe storage, including any incompatibilities	
Storage precautions	Store in tightly-closed, original container in a dry, cool and well-ventilated place.
Storage class	Miscellaneous hazardous material storage.
7.3. Specific end use(s)	
Specific end use(s)	The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

Distillates, hydrotreated heavy paraffinic

Long-term exposure limit (8-hour TWA): ACGIH 5 mg/m³ Short-term exposure limit (15-minute): ACGIH 10 mg/m³

Distillates, hydrotreated heavy paraffinic

Long-term exposure limit (8-hour TWA): ACGIH 5 mg/m³ Short-term exposure limit (15-minute): ACGIH 10 mg/m³

Diphenylamine

Short-term exposure limit (15-minute): WEL 20 mg/m³ Long-term exposure limit (8-hour TWA): WEL 10 mg/m³

ACGIH = American Conference of Governmental Industrial Hygienists. WEL = Workplace Exposure Limit

Diphenylamine (CAS: 122-39-4)

DNEL	Workers - Dermal; Long term systemic effects: 0.62 mg/kg Workers - Inhalation; Long term systemic effects: 4.37 mg/m ³ Consumer - Dermal; Long term systemic effects: 0.31 mg/kg Consumer - Inhalation; Long term systemic effects: 1.09 mg/m ³ Consumer - Oral; Long term systemic effects: 0.31 mg/kg
PNEC	 Fresh water; 0.051 mg/l Marine water; 0.0051 mg/l Intermittent release; 0.51 mg/l Sediment (Freshwater); 9320 mg/kg Sediment (Marinewater); 932 mg/kg Soil; 1860 mg/kg STP; 1 mg/l

8.2. Exposure controls

Protective equipment



Appropriate engineering Provide adequate general and local exhaust ventilation. Observe any occupational exposure controls limits for the product or ingredients. Eye/face protection Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles or face shield. Hand protection The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. Other skin and body Use barrier creams to prevent skin contact. protection Hygiene measures Use engineering controls to reduce air contamination to permissible exposure level. Wash promptly with soap and water if skin becomes contaminated.

Respiratory protection	No specific recommendations. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.
Thermal hazards	Not anticipated under normal conditions of use. The product is combustible if heated excessively and an ignition source is applied.
Environmental exposure controls	Do not allow product to contaminate land.

SECTION 9: Physical and Chemical Properties

Colour Amber. to Brown. Odour Characteristic. Oil-like. Odour threshold Not known. pH Not applicable. Metting point -36°C Pour point Initial boiling point and range >320°C @ 101.3 kPa Flash point 231°C PMCC (Pensky-Martens closed cup). Evaporation rate Not known. Upper/lower flammability Product is not flammable but on excessive heating may become combustible. Vapour pressure <0.1 kPa @ 20°C Vapour density Not determined. Solubility(ies) Insoluble in water. Soluble in the following materials: Organic solvents. Partition coefficient Not determined. log Kow: > 7 This figure is typical of mineral oil. Auto-ignition temperature Not considered to be explosive. Viscosity 96 Cst @ 40°C Explosive properties Not considered to be explosive. Explosive properties Thor instirue itself has not been tested but none of the ingredient substances meet the criteria for classification as oxidising. 92. Other information The product is a complex mixture, the majority of which would not be classed as a VOC.	9.1. Information on basic physical and chemical properties	
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	9.2. Other information	
However it cannot be discounted that trace or low levels of VOC's may be present.	Volatile organic compound	The product is a complex mixture, the majority of which would not be classed as a VOC. However it cannot be discounted that trace or low levels of VOC's may be present.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	There are no known reactivity hazards associated with this product.
10.2. Chemical stability	
Stability	Stable at normal ambient temperatures and when used as recommended.
10.3. Possibility of hazardous	reactions
Possibility of hazardous reactions	Unlikely to occur under normal conditions of use. Unlikely to occur.
10.4. Conditions to avoid Conditions to avoid	Avoid heat, flames and other sources of ignition.
10.5. Incompatible materials	
Materials to avoid	Strong oxidising agents.
10.6. Hazardous decomposition	on products
Hazardous decomposition products	Oxides of carbon. Oxides of nitrogen.
SECTION 11: Toxicological in	formation
11.1. Information on toxicologi	ical effects
Acute toxicity - oral	
Notes (oral LD₅₀)	Not expected to be highly toxic based on information of ingredients. Based on available data the classification criteria are not met.
Acute toxicity - dermal	
Notes (dermal LD₅₀)	Not expected to be highly toxic based on information of ingredients. Based on available data the classification criteria are not met.
Acute toxicity - inhalation	
Notes (inhalation LC₅₀)	Not determined. The product is unlikely to present any significant inhalation hazard at ambient temperatures and under normal conditions of use.
Serious eye damage/irritation	
Serious eye damage/irritation	May cause mild, short lasting discomfort to eyes.
Respiratory sensitisation Respiratory sensitisation	No evidence to suggest the product will be a respiratory sensitiser. Repeated exposure to oil mists may cause respiratory damage.
Skin sensitisation	
Skin sensitisation	Not expected to be a skin sensitizer based on information on components.
Carcinogenicity Carcinogenicity	This product contains mineral oils which are considered to be severely refined and not considered to be carcinogenic under IARC. All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP346 test
Reproductive toxicity	
Reproductive toxicity - fertility	No data available to suggest the product will cause reproductive toxicity.
Specific target organ toxicity -	
STOT - single exposure	Based on available data the classification criteria are not met.
Specific target organ toxicity - repeated exposure	
STOT - repeated exposure	Based on available data the classification criteria are not met.

Aspiration hazard Aspiration hazard	Kinematic viscosity > 20.5 mm ² /s. The product viscosity is greater than the upper limit assigned for classification. Although not classified, the product contains mineral oil. If aspirated into the lungs e.g. through vomiting after ingestion, admit to hospital immediately.
General information	This product has low toxicity. Only large quantities are likely to have adverse effects on human health.
Inhalation	Unlikely to be hazardous by inhalation because of the low vapour pressure of the product at ambient temperature.
Ingestion	No harmful effects expected from quantities likely to be ingested by accident.
Skin contact	Skin irritation should not occur when used as recommended. Repeated exposure may cause skin dryness or cracking.
Eye contact	May cause temporary eye irritation.
Acute and chronic health hazards	Prolonged or repeated contact with used oil may cause serious skin diseases, such as dermatitis and skin cancer.

SECTION 12: Ecological Information	
Ecotoxicity	Based on available data the classification criteria are not met. Not regarded as dangerous for the environment.
12.1. Toxicity	
Toxicity	Based on available data the classification criteria are not met. Not considered toxic to fish.
Acute toxicity - aquatic invertebrates	Based on available data the classification criteria are not met.
12.2. Persistence and degrada	ability
Persistence and degradability	The product contains mineral oil which has limited biodegradability in CEC test methods but will biodegrade slowly in aerobic water and sediments and is considered ultimately biodegradable.
Stability (hydrolysis)	The product is based on highly refined mineral oils that are considered stable to hydrolysis.
Biodegradation	The product is not considered readily biodegradeable, albeit the major constituents are expected to ultimately biodegrade.
Biological oxygen demand	Not determined.
Chemical oxygen demand	Not determined.
12.3. Bioaccumulative potentia	
Bioaccumulative potential	Bioaccumulation is unlikely to be significant because of the low water-solubility of this product.
Partition coefficient	Not determined. log Kow: > 7 This figure is typical of mineral oil.
12.4. Mobility in soil	
Mobility	The product is non-volatile. The product is insoluble in water and will spread on the water surface.
Henry's law constant	Not determined.
12.5. Results of PBT and vPvI	3 assessment
Results of PBT and vPvB assessment	This product does not contain any substances classified as PBT or vPvB.
12.6. Other adverse effects	
Other adverse effects	None known.
SECTION 13: Disposal consid	erations
13.1. Waste treatment method	S
General information	This material and its container must be disposed of as hazardous waste. Dispose of waste via a licensed waste disposal contractor.
Disposal methods	Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Dispose of waste via a licensed waste disposal contractor.
SECTION 14: Transport inform	nation
General	The product is not covered by international regulations on the transport of dangerous goods

14.1. UN number

(IMDG, IATA, ADR/RID).

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

15.1. Safety, health and e	nvironmental regulations/legislation specific for the substance or mixture
National regulations	Health and Safety at Work etc. Act 1974 (as amended). The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716). Control of Substances Hazardous to Health Regulations 2002 (as amended). The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].
EU legislation	Dangerous Preparations Directive 1999/45/EC. Dangerous Substances Directive 67/548/EEC. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
Guidance	Workplace Exposure Limits EH40. Safety Data Sheets for Substances and Preparations

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

Inventories

Canada - DSL/NDSL

All the ingredients are listed or exempt.

US - TSCA

All the ingredients are listed or exempt.

Australia - AICS

All the ingredients are listed or exempt.

Korea - KECI

All the ingredients are listed or exempt.

China - IECSC

All the ingredients are listed or exempt.

Philippines – PICCS

All the ingredients are listed or exempt.

New Zealand - NZIOC

All the ingredients are listed or exempt.

SECTION 16: Other information

Revision comments	NOTE: Lines within the margin indicate significant changes from the previous revision.
Revision date	30/11/2015
Revision	1
SDS number	21478

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.