



EXCELLENCE IN LUBRICANTS

SAFETY DATA SHEET

Athena Super M 80W/90



EXOL LUBRICANTS LIMITED

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SAFETY DATA SHEET

Athena Super M 80W/90

Product Code: G124

SECTION 1 IDENTIFICATION OF SUBSTANCE/MIXTURE AND OF COMPANY/UNDERTAKING

1.1 Product Identifier	Athena Super M 80W/90
Product Code	G124
1.2 Relevant identified uses of the substance or mixture and uses advised against	Automotive gear lubricant. Do not use in any other application.
1.3 Company	Exol Lubricants Limited All Saints Road, Wednesbury, West Midlands, WS10 9TS
1.4 Emergency Telephone Number	+44 (0) 121 568 6800 (Monday – Friday 08.30 – 17.00 hrs GMT)
1.5 Other Information	Preparation Date: 20/02/2015

SECTION 2 HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture	Not classified as hazardous in accordance with CLP (EC 1272/2008) and DPD (1999/45/EC)
2.2 Label Elements	No labelling required
2.3 Other Hazards	None to mention

SECTION 3 COMPOSITION/ INFORMATION ON INGREDIENTS

3.2 Mixtures					
Hazardous Ingredients	EC No.	REACH Reg. No.	GHS Classification	DSD Classification	Conc. %
Pentene, 2,4,4-trimethyl-, sulfurized	Polymer	Not available	Aquatic Chronic 4; H413 Skin Sens. 1; H317	Xi R43, R53	<4
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 alkyl (branched)	931-384-6	01-2119493620-38	Acute Tox. 4; H302 Aquatic Chronic 2; H411 Eye Dam. 1; H318 Flam. Liq. 3; H226 Skin Sens. 1; H317	N Xn R22, R41, R43, R51/53	<1.5

Other Information

It is understood from toxicological information given for the components present that at the treatment rate used in the finished oil, the material is not expected to cause allergic skin reactions.

SECTION 4 FIRST AID MEASURES

4.1 Description of first aid measures	
Inhalation	If inhalation of mists, fumes or vapour causes irritation to the nose or throat, or coughing, remove to fresh air. If symptoms persist obtain medical advice.
Eyes	Wash eye thoroughly with copious quantities of water, ensuring eyelids are held open. Obtain medical advice if any pain or redness develops or persists.
Skin	Wash skin thoroughly with soap and water as soon as reasonably practicable. Remove heavily contaminated clothing and wash underlying skin.
Ingestion	If contamination of the mouth occurs, wash out thoroughly with water. Except as a deliberate act, the ingestion of large amounts of product is unlikely. If it should occur, do not induce vomiting; obtain medical advice.
4.2 Most important symptoms and effects, both acute and delayed	No ill effects known
4.3 Indication of immediate medical attention and special treatment needed, if necessary	Eye contact: immediately wash out with plenty of water



SAFETY DATA SHEET

SECTION 5 FIRE-FIGHTING MEASURES

- 5.1 Extinguishing media** Use foam, dry power or water fog. DO NOT USE water jets. Water may be used to cool nearby heat exposed areas/objects/packages.
- 5.2 Specific hazards arising from the substance or mixture** Avoid spraying directly into storage containers because of the danger of boil-over. Toxic fumes may be evolved on burning or exposure to heat. See Stability and Reactivity, Section 10 of this data sheet.
- 5.3 Advice for fire-fighters** Wear self-contained breathing apparatus.

SECTION 6 ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures** Wear Personal Protective Equipment. Spilled material may make surfaces slippery. Contain and recover spilled material using sand or other suitable inert absorbent material. It is advised that stocks of suitable absorbent material should be held in quantities sufficient to deal with any spillage which may be reasonably anticipated.
- 6.2 Environmental precautions** Protect drains from potential spills to minimise contamination. Do not wash product into drainage system.
In the case of large spills contact the appropriate authorities. In the case of spillage on water, prevent the spread of product by the use of suitable barrier equipment. Recover product from the surface. Protect environmentally sensitive areas and water supplies.
- 6.3 Methods and material for containment and cleaning up** Absorb into dry earth or sand, transfer into suitable containers for disposal.
- 6.4 Reference to other sections** Personal protective equipment: See section 8

SECTION 7 HANDLING AND STORAGE

- 7.1 Precautions for safe handling** Avoid contact with eyes. If splashing is likely to occur wear a full face visor or chemical goggles as appropriate. Avoid frequent or prolonged skin contact with fresh or used product. Good working practices, high standards of personal hygiene and plant cleanliness must be maintained at all times. Wash hands thoroughly after contact.
Use disposable cloths and discard when soiled. Do not put soiled cloths into pockets.
- 7.2 Conditions for safe storage, including any incompatibilities** Store under cover away from heat and sources of ignition.
Product contaminated rags, paper or material used to absorb spillages, represent a fire hazard, and should not be allowed to accumulate. Dispose of safely immediately after use.
- 7.3 Specific end use(s)** Intended for use as an automotive gear lubricant.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters**
- | Country | Substance | Long Term (8 Hours TWA) | Short Term (15 Mins) |
|---------|-----------|-------------------------|----------------------|
|---------|-----------|-------------------------|----------------------|
- 8.2 Exposure controls** Use local exhaust ventilation to control mists or vapours.
- Hand Protection:** PVC gloves
Eye Protection: Safety glasses
Skin Protection: Normal work wear
Respiratory Protection: Not normally required

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Typical Values

Grades:		Athena Super M 80W/90
Appearance	Units	Amber Liquid
Odour		Oily
Odour Threshold		No data available
pH		Not applicable
Pour point/range	°C	No data available
Initial boiling point and range	°C	No data available
Flash point (COC)	°C	235



SAFETY DATA SHEET

Auto Flammability	°C	No data available
Upper/lower flammability or explosive limits		Not applicable
Vapour pressure	kPa (0.1 mm Hg)	No data available
Relative density	kg/m ³	0.893 @ 20°C
Solubility - water	kg/m ³	Insoluble
Partition coefficient n-octanol/water		No data available
Autoignition temperature		No data available
Decomposition temperature		No data available
Viscosity	mm ² /s	140.2 @ 40°C
	mm ² /s	14.42 @ 100°C
Evaporation rate		Not applicable
Vapour density		Not applicable
Explosive properties		Not applicable
Oxidising properties		None

9.2 Other Information None

SECTION 10 STABILITY AND REACTIVITY

10.1 Reactivity	No dangerous reactions known
10.2 Chemical stability	Stable under normal conditions of use
10.3 Possibility of hazardous reactions	None known
10.4 Conditions to avoid	Avoid overheating
10.5 Incompatible materials	Avoid contact with strong oxidising agents
10.6 Hazardous decomposition products	Thermal decomposition products will vary with conditions. Incomplete combustion will generate smoke, carbon dioxide and hazardous gases, including carbon monoxide and hydrogen sulphide and oxides of sulphur and phosphorus.

SECTION 11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity	
- Oral	Low order of acute toxicity
- Inhalation	Low order of acute toxicity
- Dermal	Low order of acute toxicity
Corrosivity/Irritation	
- Eye	No components present that are classified as eye irritants.
- Skin	No components present that are classified as skin irritants but may cause skin irritation due to de-fating effect on skin.
- Respiratory Tract	No components present that are classified as respiratory irritants.
Sensitisation	
- Skin	No evidence of sensitisation effects.
- Respiratory	No evidence of sensitisation effects.
Repeated-dose Toxicity	No data available.
Mutagenicity	No evidence of mutagenicity.
Carcinogenicity	No evidence of carcinogenicity.
Reproductive Toxicity	No evidence of reproductive toxicity.

SECTION 12 ECOLOGICAL INFORMATION

12.1 Toxicity	Not classified as dangerous for the environment. No ecotoxic chemicals present. However, spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.
12.2 Persistence and Degradability	This product is inherently biodegradable.
12.3 Bioaccumulative Potential	There is no evidence to suggest bioaccumulation will occur.
12.4 Mobility in Soil	Non volatile. Spillages may penetrate the soil causing ground water contamination.
12.5 Results of PBT and vPvB Assessment	No PBT or vPvB chemicals present.
12.6 Other Adverse Effects	None known.



SAFETY DATA SHEET

SECTION 13 DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

Dispose in a regulated landfill site or other method for hazardous or toxic waste. Dispose of in accordance with local and national regulations.

SECTION 14 TRANSPORT INFORMATION

Not classified as hazardous for transport (ADR, RID, UN, IMDG, IMO, IATA/ICAO).

SECTION 15 REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Supply regulations: DPD: Dangerous Preparations Directive; GHS: Globally Harmonised System of classification and labelling of chemicals; CLP: Classification, Labelling and Packaging regulations. Transport regulations: CDG: Carriage of Dangerous Goods regulations; ADR/RID/IMDG/ICAO/IATA regulations.

15.2 Chemical Safety Assessment

No formal chemical safety assessment has been carried out.

SECTION 16 OTHER INFORMATION

Third Issue

Second Issue September 2013: Changed to new format

Previous Issue January 2009: Revised to Reach v2 format.

Full text of classification data in sections 2 and 3

Flam. Liq. 3; H226	Flammable liquids, Hazard Category 3; Flammable liquid and vapour
Acute Tox. 4; H302	Acute toxicity, oral, Hazard Category 4; Harmful if swallowed
Skin Sens. 1; H317	Sensitisation, skin, Hazard Category 1; May cause an allergic skin reaction
Eye Dam. 1; H318	Serious eye damage/eye irritation, Hazard Category 1; Causes serious eye damage
Aquatic Chronic 2; H411	Hazardous to the aquatic environment, long-term hazard, Hazard Category 2; Toxic to aquatic life with long lasting effects
Aquatic Chronic 4; H413	Hazardous to the aquatic environment, long-term hazard, Hazard Category 4; May cause long lasting harmful effects to aquatic life
Xn; R22	Harmful if swallowed
Xi; R41	Risk of serious damage to the eyes
Xi; R43	May cause sensitisation by skin contact
N; R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R53	May cause long-term adverse effects in the aquatic environment