



EXCELLENCE IN LUBRICANTS

SAFETY DATA SHEET

Athena SAE 90



EXOL LUBRICANTS LIMITED

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Athena SAE 90

Product Code: G021

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

1.1 Product Identifier	Athena SAE 90
Product Code	G021
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: 19/02/2015

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	EC No.	REACH Reg. No.	GHS Classification	DSD Classification	Conc. %
Hazardous Ingredients					
Non-Hazardous Substance					1-100%

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

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.



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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 SAE 90
	Units	
Appearance		Amber Liquid
Odour		Oily
Odour Threshold		No data available
pH		Not applicable
Pour point/range	°C	-12
Initial boiling point and range	°C	No data available
Flash point (COC)	°C	220
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/m³	0.893 @ 20°C
Solubility - water	kg/m³	Insoluble
Partition coefficient n-octanol/water		No data available
Autoignition temperature		No data available
Decomposition temperature		No data available
Viscosity	mm²/s	228.90 @ 40°C



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Evaporation rate	mm ² /s	19.82 @ 100°C
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-fatting 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.

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).



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SECTION 15	REGULATORY INFORMATION
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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
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Third Issue

Second Issue June 2013: Changed to new format

Previous Issue October 2002: Revised to Reach v2 format.