



**EXCELLENCE IN LUBRICANTS**

**SAFETY DATA SHEET**

**Athena Super Syngear 75W/90**



**EXOL LUBRICANTS LIMITED**

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# SAFETY DATA SHEET

## Athena Super Syngear 75W/90

Product Code: G123

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

1.1 Product Identifier	Athena Super Syngear 75W/90
Product Code	G123
1.2 Relevant identified uses of the substance or mixture and uses advised against	Lubricant for industrial gears. 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	273-103-3		Aquatic Chronic 4; H413 Skin Sens. 1; H317	Xi; R43 R53	1-4.9
Amines, C12-14-alkyl, reaction products with hexanol, phosphorus oxide (P2O5), phosphorus sulfide (P2S5) and propylene oxide	294-716-2	01-2119493620-38	Acute Tox. 4; H302 Aquatic Chronic 2; H411 Eye Dam. 1; H318 Flam. Liq. 3; H226 Skin Sens. 1; H317	Xn; R22 Xi; R41 Xi; R43 N; R51/53	1-4.9

### SECTION 4 FIRST AID MEASURES

4.1 Description of first aid measures	
Inhalation	Remove exposed person to fresh air if adverse effects are observed.
Eyes	Flush with water at least 30 minutes. Get medical attention if eye irritation develops or persists.
Skin	Wash with soap and water. Remove contaminated clothing. If skin irritation occurs, get medical attention. Launder contaminated clothing before reuse and discard leather articles saturated with the material.
Ingestion	DO NOT INDUCE VOMITING. Get immediate medical attention.
4.2 Most important symptoms and effects, both acute and delayed	See section 11
4.3 Indication of immediate medical attention and special treatment needed, if necessary	Note to physician. Treat symptomatically.

### SECTION 5 FIRE-FIGHTING MEASURES

5.1 Extinguishing media	CO2, dry chemical, foam, water spray, water fog.
5.2 Specific hazards arising from the substance or mixture	See section 10 for additional information.
5.3 Advice for fire-fighters	Recommend wearing self-contained breathing apparatus. Water may cause splattering. Use water to cool containers exposed to fire.



# SAFETY DATA SHEET

## SECTION 6 ACCIDENTAL RELEASE MEASURES

- 6.1 **Personal precautions, protective equipment and emergency procedures** Personal protective equipment must be worn. Ventilate area if spilled in a confined space or other poorly ventilated area.
- 6.2 **Environmental precautions** Prevent entry into sewers and waterways.
- 6.3 **Methods and material for containment and cleaning up** Pick up free liquid for recycle and /or disposal. Residual liquid can be absorbed on inert material.
- 6.4 **Reference to other sections** See sections 8 and 13 for additional information.

## SECTION 7 HANDLING AND STORAGE

- 7.1 **Precautions for safe handling** Use with adequate ventilation. Keep containers closed when not in use. Avoid eye contact. Avoid repeated or prolonged skin contact. When handling, do not eat, drink or smoke. Wash thoroughly after handling. Empty container contains product residue which may exhibit hazards of product. Dispose of packaging and containers in accordance with local, regional, national and international regulations.  
**Pumping Temperature:** Ambient  
**Maximum Handling Temperature:** 70°C  
**Loading Temperature:** Not determined
- 7.2 **Conditions for safe storage, including any incompatibilities** Odorous and toxic fumes may form from the decomposition of this product if stored at temperatures in excess of 45°C for extended periods of time or if heat sources in excess of 121°C are used. See section 10 for incomplete materials.  
**Maximum Storage Temperature:** 45°C
- 7.3 **Specific end use(s)** Not determined

## SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 **Control parameters**
- | Country    | Substance | Long Term (8 Hours TWA) | Short Term (15 Mins) |
|------------|-----------|-------------------------|----------------------|
| None known |           |                         |                      |
- 8.2 **Exposure controls**
- Use with adequate ventilation.
- Skin Protection:** Neoprene. Polyvinyl alcohol. Note: polyvinyl alcohol gloves are water soluble and should not be used when there is potential for water contact. Long sleeve shirt is recommended. Use chemically protective boots when necessary to avoid contaminating shoes. Do not wear rings, watches or similar that could entrap the material and cause a skin reaction. Launder contaminated clothing before reuse.
- Eye Protection:** Safety glasses
- Respiratory Protection:** Use respirator with a combination organic vapour and high efficiency filter cartridge if recommended exposure limit is exceeded. Use breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill sites.
- Hygiene Measures:** Wash thoroughly after handling this product. Do not eat, drink or smoke when using this product.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

#### Typical Values

Grades:		Athena Super Syngear 75W/90
Appearance	Units	Dark Amber Liquid
Odour		Strong
Odour Threshold		No determined
pH		Not determined
Pour point/range	°C	Not determined
Initial boiling point and range	°C	Not determined
Flash point (COC)	°C	>150
Auto Flammability	°C	Not applicable
Upper/lower flammability or explosive limits		Not determined
Vapour pressure	kPa (0.1 mm Hg)	Not determined
Relative density	kg/m <sup>3</sup>	0.873 @ 20°C



# SAFETY DATA SHEET

Solubility - water	kg/m <sup>3</sup>	Insoluble
Partition coefficient n-octanol/water		Not determined
Autoignition temperature		Not determined
Decomposition temperature		Not determined
Viscosity	mm <sup>2</sup> /s	104 @ 40°C
Evaporation rate		Not applicable
Vapour density		Not applicable
Explosive properties		Material does not have explosive properties
Oxidising properties		Material is a non-oxidising substance

9.2 Other Information None

## SECTION 10 STABILITY AND REACTIVITY

10.1 Reactivity	Carefully review all information provided in sections 10.6
10.2 Chemical stability	Material is normally stable at room temperature and pressure. See the Handling and Storage section for further details.
10.3 Possibility of hazardous reactions	Will not occur
10.4 Conditions to avoid	Not determined
10.5 Incompatible materials	Strong acids. Strong bases. Oxidising agents.
10.6 Hazardous decomposition products	Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion. Hydrogen sulfide and alkyl mercaptans and sulfides may be released. Under combustion conditions, oxides of the following elements will be formed: sulfur.

## SECTION 11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects	
Acute Toxicity	
- Oral	The LD50 in rats is >10,000 mg/kg. Based on data from components or similar materials. Material can be aspirated into the lungs during the act of swallowing or vomiting. This could result in severe injury to the lungs and death.
- Inhalation	No data available to indicate product or components may be toxic inhalation hazard.
- Dermal	The LD50 in rabbits is >2,000 mg/kg. Based on data from components or similar materials.
Corrosivity/Irritation	
- Eye	Not expected to cause eye irritation. Based on data from components or similar materials.
- Skin	May cause mild skin irritation. Does not meet Canadian D2B or EU R38 criteria. Based on data from components or similar materials. Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, oedema, drying and cracking of the skin.
- Respiratory Tract	If material is misted or if vapours are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract. Based on data from components or similar materials.
Sensitisation	
- Skin	No data available to indicate product or components may be a skin sensitiser.
- Respiratory	No data available to indicate product or components may be a respiratory sensitiser.
STOT Repeated Exposure	No data available to indicate product or components present at greater than 1% are chronic health hazards.
Mutagenicity	No data available to indicate product or components present at greater than 0.1% are mutagenic or genotoxic.
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 IP 346 test.
Reproductive Toxicity	No data available to indicate either product or components present at greater than 0.1% that may cause reproductive toxicity.

## SECTION 12 ECOLOGICAL INFORMATION

12.1 Toxicity	<b>Freshwater Fish:</b> Not determined <b>Freshwater Invertebrates:</b> Chronic effects expected at 100 mg/l based on component data. <b>Algae:</b> Not determined <b>Bacteria:</b> Not determined
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# SAFETY DATA SHEET

## 12.2 Persistence and Degradability

Substance	Pct. (weight)	Test type	Duration (days)	Pct. degradation
Amines, C12-14-alkyl, reaction products with hexanol, phosphorus oxide (P2O5), phosphorus sulphide (P2S5) and propylene oxide	From 1 to 4.9 per cent	Inherent/Sludge	28	3.6
Amines, C12-14-alkyl, reaction products with hexanol, phosphorus oxide (P2O5), phosphorus sulphide (P2S5) and propylene oxide	From 1 to 4.9 per cent	Sturm	28	-10
Amines, C12-14-alkyl, reaction products with hexanol, phosphorus oxide (P2O5), phosphorus sulphide (P2S5) and propylene oxide	From 1 to 4.9 per cent	Sturm	28	7.4

**12.3 Bioaccumulative Potential** There is no evidence to suggest bioaccumulation will occur.

**12.4 Mobility in Soil** Not applicable.

**12.5 Results of PBT and vPvB Assessment** Not available.

**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

<b>14.1 UN number</b>	ADR/RID	Not regulated
	ICAO	Not regulated
	IMDG	Not regulated
<b>14.2 UN proper shipping name</b>	ADR/RID	Not regulated
	ICAO	Not regulated
	IMDG	Not regulated
<b>14.3 Transport hazard class(es)</b>	ADR/RID	Not regulated
	ICAO	Not regulated
	IMDG	Not regulated
<b>14.4 Packaging Group</b>	ADR/RID	Not regulated
	ICAO	Not regulated
	IMDG	Not regulated
<b>14.5 Environmental hazards</b>	ADR/RID	Not applicable
	ICAO	Not applicable
	IMDG	Not applicable
<b>14.6 Special precautions for users</b>	Review classification requirements before shipping materials at elevated temperatures.	
<b>14.7 Transport in bulk according to Annex II of Marpol 73/78 and the IBC code</b>	Not determined	

## SECTION 15 REGULATORY INFORMATION

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

#### Global Chemical Inventories

<b>Australia</b>	All components are in compliance with chemical notification requirements in Australia.
<b>Canada</b>	This material contains one or more components that are on the Domestic Substances list (NDSL). This material or products containing this material may be exported to Canada in limited quantities.
<b>China</b>	All components of this product are listed on the Inventory of Existing Chemical Substances in China.
<b>EU</b>	All components are in compliance with the EC Seventh amendment Directive 92 /32/EEC.
<b>Japan</b>	All components are in compliance with the Chemical Substances Control Law of Japan.
<b>Korea</b>	All components are in compliance in Korea.
<b>New Zealand</b>	All components are in compliance with chemical notification requirements in New Zealand.
<b>Philippines</b>	All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A.6969)
<b>Switzerland</b>	All components are in compliance with the Environmentally Hazardous Substances Ordinance in Switzerland.
<b>USA</b>	All components of this material are on the US RSCA Inventory or are exempt.



# SAFETY DATA SHEET

## German water hazard classes

WGK = 2 according to the Water Hazardous Directive, VwVwS, dated May 19, 1999.

**15.2 Chemical Safety Assessment** No formal chemical safety assessment has been carried out.

<b>SECTION 16</b>	<b>OTHER INFORMATION</b>
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Third Issue

Second Issue October 2013: Changed to new format

Previous version May 2009: Changed to Reach version 2 format

### Relevant R Phrases

- R22 - Harmful if swallowed.
- R41 - Risk of serious damage to eye.
- R43 - May cause sensitisation by skin contact.
- R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R53 - May cause long term adverse effects in aquatic environment.

### Relevant Hazard Phrases

- H226 - Flammable liquid and vapour.
- H302 - Harmful if swallowed.
- H317 - May cause an allergic skin reaction.
- H318 - Causes serious eye damage.
- H361 - Suspected of damaging fertility or the unborn child.
- H411 - Toxic to aquatic life with long lasting effects.
- H413 - May cause long lasting harmful effects to aquatic life.