



**EXCELLENCE IN LUBRICANTS**

## *SAFETY DATA SHEET*

Cyclone PAO 32



### **EXOL LUBRICANTS LIMITED**

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# SAFETY DATA SHEET

## Cyclone PAO 32

Product Code: C061

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

1.1 Product Identifier	Cyclone PAO 32
Product Code	C061
1.2 Relevant identified uses of the substance or mixture and uses advised against	Compressor 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: 17/02/2015

### 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	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 DMSO test.

### SECTION 3 COMPOSITION/ INFORMATION ON INGREDIENTS

3.2 Mixtures					
Component	CAS No.	REACH Reg. No.	GHS Classification	DSD Classification	Conc. %
No hazardous ingredients present at a concentration at or exceeding the Declaration of Content Limit					

### SECTION 4 FIRST AID MEASURES

4.1 Description of first aid measures	
Inhalation	Assure fresh air breathing. Allow the victim to rest.
Eyes	Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
Skin	Remove affected clothing and wash all exposed skin areas with mild soap and water, followed by warm water rinse.
Ingestion	Rinse mouth. Do not induce vomiting. Obtain emergency medical attention.
4.2 Most important symptoms and effects, both acute and delayed	Not expected to present a significant hazard under anticipated conditions of normal use.
4.3 Indication of immediate medical attention and special treatment needed, if necessary	Treat symptomatically.

### SECTION 5 FIRE-FIGHTING MEASURES

5.1 Extinguishing media	Foam. Dry powder. Carbon dioxide. Water spray. Sand. Do not use a heavy water stream
5.2 Specific hazards arising from the substance or mixture	No reactivity hazard other than the effects described in sub-sections below.
5.3 Advice for fire-fighters	Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures	Avoid contact with skin and eyes. Evacuate unnecessary personnel. Equip clean up crew with proper protection and ventilate area.
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- 6.2 Environmental precautions** Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.
- 6.3 Methods and material for containment and cleaning up** Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
- 6.4 Reference to other sections** Personal protective equipment: See section 8

## SECTION 7 HANDLING AND STORAGE

- 7.1 Precautions for safe handling** Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.
- 7.2 Conditions for safe storage, including any incompatibilities** Keep container closed when not in use. Store in original container. Protect from moisture. Keep cool.  
Incompatible products: Oxidising agents, strong acids and strong bases.  
Incompatible materials: Sources of ignition and direct sunlight.  
Storage temperature: 0 - 40°C
- 7.3 Specific end use(s)** Lubricant oil

## SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters**
- | Country | Substance                 | Long Term (8 Hours TWA)        | Short Term (15 Mins) |
|---------|---------------------------|--------------------------------|----------------------|
| None    | Refined mineral oil, mist | ACGIH, TWA 5 mg/m <sup>3</sup> |                      |
- 8.2 Exposure controls** Ensure exposure is below occupational exposure limits (where available).  
**Personal Protective Equipment:** Avoid all unnecessary exposure  
**Hand Protection:** In case of repeated or prolonged contact, wear gloves. Standard EN 374 – Protective gloves against chemicals. Wear protective gloves.  
**Eye Protection:** If there is a risk of splashing; chemical goggles or safety glasses should be worn. Standard EN 166 – Personal eye-protection.  
**Skin and Body Protection:** Wear suitable protective clothing.  
**Respiratory Protection:** In case of insufficient ventilation, wear suitable respiratory equipment. Wear appropriate mask.  
**Other Information:** Do not eat, drink or smoke during use.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**9.1 Information on basic physical and chemical properties** Does not constitute a specification

### Typical Values

Grades:	Units	Cyclone PAO 32
Appearance		Amber Liquid
Odour		Characteristic
Odour Threshold		No data available
pH		Not applicable
Pour point/range	°C	No data available
Initial boiling point and range	°C	>280 IBP
Flash point (PMCC)	°C	>210
Flammability		Non flammable
Upper/lower flammability or explosive limits		Not applicable
Vapour pressure	kPa (0.1 mm Hg)	<0.5 kPa @ 20°C
Relative density	kg/m <sup>3</sup>	0.835 @ 15°C
Solubility		Insoluble in water. Soluble in aliphatic hydrocarbons
Partition coefficient n-octanol/water	Log Pow	No data available
Autoignition temperature		>320
Decomposition temperature		No data available
Viscosity	mm <sup>2</sup> /s	32.0 @ 40°C
Evaporation rate		Not applicable
Vapour density		No data available
Explosive properties		Not classified
Oxidising properties		Not classified



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9.2 Other Information None

## SECTION 10 STABILITY AND REACTIVITY

10.1 Reactivity	No reactivity hazard other than the effects described in sub-sections below.
10.2 Chemical stability	Stable under recommended handling and storage conditions.
10.3 Possibility of hazardous reactions	May react violently with oxidants.
10.4 Conditions to avoid	Extremely high or low temperatures and direct sunlight.
10.5 Incompatible materials	Strong acids. Strong bases. Oxidizing agents.
10.6 Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects	
Acute Toxicity	Not classified
Corrosivity/Irritation	Not classified
Sensitisation	Not classified
Repeated-dose Toxicity	Not classified
Mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive Toxicity	Not classified

## SECTION 12 ECOLOGICAL INFORMATION

12.1 Toxicity	The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
12.2 Persistence and Degradability	Not readily biodegradable.
12.3 Bioaccumulative Potential	Low bioaccumulation potential.
12.4 Mobility in Soil	No additional information available.
12.5 Results of PBT and vPvB Assessment	Not classified as PBT or vPvB.
12.6 Other Adverse Effects	Avoid release to the environment.

## SECTION 13 DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods  
Dispose in a safe manner in accordance with local/national regulations. Avoid release to the environment.

## SECTION 14 TRANSPORT INFORMATION

Not classified as hazardous for transport (ADR, RID, UN, 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

Second Issue  
Previous Issue January 2014: Changed to new format  
Full text of classification data in sections 2 and 3