

SAFETY DATA SHEET

Syngear PAO 150



EXOL LUBRICANTS LIMITED

ALL SAINTS ROAD, WEDNESBURY, WEST MIDLANDS, ENGLAND, WS10 9LL

TEL: +44 (0) 121 568 6800 • FAX: +44 (0) 121 568 6720

WWW.EXOL-LUBRICANTS.COM





Syngear PAO 150

Product Code: G142

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

1.1 Product Identifier Syngear PAO 150

Product Code G142

1.2 Relevant identified uses of the Gear lubricant.

substance or mixture and uses

Do not use in any other application.

advised against
1.3 Company F

.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)

.5 Other Information Preparation Date: 21/07/2015

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 None to mention

SECTION 3 COMPOSITION/ INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous Ingredients EC No. REACH Reg. No. GHS Classification DSD Conc. %

Classification

No hazardous ingredients present

SECTION 4 FIRST AID MEASURES

4.1 Description of first aid measures

In the unlikely event of dizziness or nausea, remove casualty to fresh air. If symptoms persist, obtain

medical attention.

Eyes Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention. **Skin** Remove contaminated clothing and wash affected skin with soap and water. If persistent irritation

occurs, obtain medical attention. When using high pressure equipment, injection of product under the skin can occur. If high pressure injuries occur, the casualty should be sent immediately to a hospital. Do

not wait for symptoms to develop.

Ingestion Wash out mouth with water and obtain medical attention. Do not induce vomiting.
 4.2 Most important symptoms and effects, No ill effects known

both acute and delayed

1.3 Indication of immediate medical attention

and special treatment needed, if necessary

Treat symptomatically. Aspiration into the lungs may result in chemical pneumonitis. Dermatitis may result from prolonged or repeated exposure. High pressure injection injuries require prompt surgical intervention and possibly steroid therapy, to minimise tissue damage and loss of function.

Because entry wounds are small and do not reflect the seriousness of the underlying damage, surgical exploration to determine the extent of involvement may be necessary. Local anaesthetics or hot soaks should be avoided because they can contribute to swelling, vasospasm and ischaemia. Prompt surgical decompression, debridement and evacuation of foreign material should be performed under general anaesthetics, and wide exploration is essential.

There may be a risk to health where low viscosity products are aspirated into the lungs following vomiting, although this is uncommon in adults. Such aspiration would cause intense local irritation and chemical pneumonitis.

Children, and those in whom consciousness is impaired, will be more at risk. Emesis of lubricants is not usually necessary, unless a large amount has been ingested, or some other compound has been dissolved in the product.





If this is indicated, for example, when there is rapid onset of central nervous system depression from large ingested volume - gastric lavage under controlled hospital conditions, with full protection of the airway is required. Supportive care may include oxygen, arterial blood gas monitoring, respiratory support, and, if aspiration has occurred, treatment with corticosteriods and antibiotics. Seizures should be controlled with Diazepam, or appropriate equivalent drug.

SECTION 5 FIRE-FIGHTING MEASURES

5.1 Extinguishing media

5.2 Specific hazards arising from the substance or mixture

5.3 Advice for fire-fighters

Foam and dry chemical powder. Carbon dioxide, sand or earth may be used for small fires only. Combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates and gases, including carbon monoxide and unidentified organic and inorganic compounds.

Proper protective equipment including breathing apparatus must be worn when approaching a fire in a confined space.

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

6.2 Environmental precautions

6.3 Methods and material for containment and cleaning up Avoid contact with skin and eyes. Wear PVC, Neoprene or nitrile rubber gloves. Wear rubber knee length safety boots and PVC Jacket and Trousers. Wear safety glasses or full face shield if splashes are likely to occur.

Prevent from spreading or entering into drains, ditches or rivers by using sand, earth, or other appropriate barriers. Inform local authorities if this cannot be prevented.

Clean-up Methods - Small Spillages

Absorb liquid with sand or earth. Sweep up and remove to a suitable, clearly marked container for disposal in accordance with local regulations.

Clean-up Methods - Large Spillages

Prevent from spreading by making a barrier with sand, earth or other containment material.

Reclaim liquid directly or in an absorbent. Dispose of as for small spills.

6.4 Reference to other sections Personal protective equipment: See section 8

SECTION 7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols. Avoid prolonged or repeated contact with skin. When handling product in drums, safety footwear should be worn and proper handling equipment should be used. Prevent spillages. Cloth, paper and other materials that are used to absorb spills present a fire hazard. Avoid their accumulation by disposing of them safely and immediately. In addition to any specific recommendations given for controls of risks to health, safety and the environment, an assessment of risks must be made to help determine controls appropriate to local circumstances. Exposure to this product should be reduced as low as reasonably practicable. Reference should be made to the Health and Safety Executive's publication 'COSHH Essentials'.

7.2 Conditions for safe storage, including any incompatibilities

Keep in a cool, dry, well-ventilated place. Use properly labelled and closeable containers. Avoid direct sunlight, heat sources, and strong oxidizing agents. The storage of this product maybe subject to the Control of Pollution (Oil Storage) (England) Regulations. Further guidance maybe obtained from the local environmental agency office.

Storage Temperatures 0°C Minimum. 50°C Maximum.

Recommended Materials

For containers or container linings, use mild steel or high density polyethylene.

Unsuitable Materials

For containers or container linings, avoid PVC.

Other Information

Polyethylene containers should not be exposed to high temperatures because of possible risk of

distortion.

7.3 Specific end use(s) See Section 1

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

3.1 Control parameters

CountrySubstanceLong Term (8 Hours TWA)Short Term (15 Mins)Europe (EH 40)Oil mist, mineral5 mg/m³10 mg/m³

8.2 Exposure controlsThe use of personal protective equipment is only one aspect of an integrated approach to the Control Of Substances Hazardous to Health.





The management of Health and Safety at Work Regulations 1992 require employers to identify and evaluate the risks to health and to implement appropriate measures to eliminate or minimise those risks. The choice of personal protective equipment is highly dependent upon local conditions, e.g. exposure to other chemical substances and micro-organisms, thermal hazards (protection from extremes of cold and heat), electrical hazards, mechanical hazards and appropriate degree of manual dexterity required to undertake an activity.

Whilst the content of this section may inform the choice of personal protective equipment used, the limitations of any information which can be provided must be fully understood, e.g. personal protective equipment chosen to protect employees from occasional splashes maybe entirely inadequate for activities involving partial or complete immersion. If the levels of oil mist or vapour in air are likely to exceed the occupational exposure standards then consideration should be given to the use of local exhaust ventilation to reduce personal exposure.

The choice of personal protective equipment should only be undertaken in the light of a full risk assessment by a suitably qualified competent person (e.g. a professionally qualified occupational hygienist). Effective protection is only achieved by correctly fitting and well maintained equipment and employers should ensure that appropriate training is given. All personal protective equipment should be regularly inspected and replaced if defective. Reference should be made to HSE's publication Methods for the Determination of Hazardous Substances (MDHS) 84 - Measurement of oil mist from mineral oil-based metalworking fluids. Measurement of an employee's exposure to oil vapour maybe supplemented through the use of stain tubes. In the first instance, further guidance maybe obtained through HSE's publication 'COSHH - a brief guide to the regulations'. (INDG 136(rev1)).

Hand Protection: Chemical protective gloves are made from a wide range of materials, but there is no single glove material (or combination of materials) which gives unlimited resistance to any individual or combination of substances or preparations. The extent of the breakthrough time will be affected by a combination of factors which include permeation, penetration, degradation, use pattern (full immersion, occasional contacts) and how the glove is stored when not in use.

Theoretical maximum levels of protection are seldom achieved in practice and the actual level of protection can be difficult to assess. Effective breakthrough time should be used with care and a margin of safety should be applied. HSE guidance on protective gloves recommends a 75% safety factor to be applied to any figures obtained in a laboratory test. Nitrile gloves may offer relatively long breakthrough times and slow permeation rates. Test data, e.g breakthrough data obtained through test standard EN374-3:1994 are available from reputable equipment suppliers. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. A non perfumed

moisturiser should be applied. Eye Protection: Goggles conforming to a minimum standard of EN 166 345B should be considered if there is a possibility of eye contact with the product through splashing. Higher rated eye protection must be considered for highly hazardous operations or work areas. For example, employees involved in metalworking operations such as chipping, grinding or cutting may require

Skin Protection: Minimise all forms of skin contact. Overalls and shoes with oil resistant soles should be worn. Launder overalls and undergarments regularly.

additional protection to avert injury from fast moving particles or broken tools.

Respiratory Protection: At standard temperature and pressure, the Occupational Exposure Standard for oil vapour is unlikely to be exceeded. Care should be taken to keep exposures below applicable occupational exposure limits. If this cannot be achieved, use of a respirator fitted with an organic vapour cartridge combined with a particulate pre-filter should be considered. Half masks (EN 149) or valved half masks (EN 405) in combination with type A2 (EN 141) and P2/3 (EN 143) prefilters maybe considered.

Environmental Exposure Controls: Minimise release to the environment. An environmental assessment must be made to ensure compliance with local environmental legislation.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Typical Values

Units

Syngear PAO 150

Clear Amber Liquid Perceptible

Grades: **Appearance**

Odour



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Odour Threshold No data available

Not applicable Pour point/range -35

Initial boiling point and range Not determined

°C Flash point (COC) >180

Auto Flammability 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 0.842

Solubility Insoluble kg/m³ Partition coefficient n-octanol/water No data available

Autoignition temperature No data available **Decomposition temperature** No data available

mm²/s 150.0 @ 40°C Viscosity mm²/s 17.0 @ 100°C **Evaporation rate** Not applicable

Vapour density Not applicable **Explosive properties** Not applicable **Oxidising properties** None

9.2 Other Information None

- water

SECTION 10 STABILITY AND REACTIVITY

10.1 Reactivity No dangerous reactions known

Stable under normal conditions of use 10.2 Chemical stability

None known 10.3 Possibility of hazardous

reactions

Extremes of temperature and direct sunlight 10.4 Conditions to avoid Avoid contact with strong oxidisng agents 10.5 Incompatible materials

Hazardous decomposition products are not expected to form during normal storage. 10.6 Hazardous decomposition

products

TOXICOLOGICAL INFORMATION SECTION 11

11.1 Information on toxicological effects

Acute Toxicity

-Oral LD50 expected to be > 2000 mg/kg

-Inhalation Not considered to be an inhalation hazard under normal conditions of use.

LD50 expected to be > 2000 mg/kg - Dermal

Corrosivity/Irritation

Expected to be slightly irritating. -Eye Expected to be slightly irritating. - Skin

If mists are inhaled, slight irritation of the respiratory tract may occur. -Respiratory Tract

Sensitisation

No evidence of sensitisation effects. -Skin No evidence of sensitisation effects. - Respiratory

No data available. Repeated-dose Toxicity

Mutagenicity Not considered to be a mutagenic hazard.

Carcinogenicity Components are not known to be associated with carcinogenic effects.

Reproductive Toxicity Not considered to be toxic to reproduction.

SECTION 12 ECOLOGICAL INFORMATION

Poorly soluble mixture. May cause physical fouling of aquatic organisms. Product is 12.1 Toxicity expected to be practically non-toxic to aquatic organisms, LL/EL50 >100 mg/l. (LL/EL50

expressed as the nominal amount of product required to prepare aqueous test extract). Mineral oil is not expected to cause any chronic effects to aquatic organisms at

concentrations less than 1 mg/l.

Not expected to be readily biodegradable. Major constituents are expected to be inherently 12.2 Persistence and Degradability biodegradable, but the product contains components that may persist in the environment.





12.3 Bioaccumulative Potential

12.4 Mobility in Soil

12.5 Results of PBT and vPvB Assessment

12.6 Other Adverse Effects

Contains components with the potential to bioaccumulate.

Liquid under most environmental conditions. Floats on water. If it enters soil, it will adsorb to

soil particles and will not be mobile.

No PBT or vPvB chemicals present.

Not expected to have ozone depletion potential, photochemical ozone creation potential or global warming potential. Product is a mixture of non-volatile components, which are not

expected to be released to air in any significant quantities.

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

Fourth Issue

Third Issue February 2015: Changed usage information Second Issue November 2012: Changed to new format First version October 2012: Changed composition information