



SAFETY DATA SHEET

ATLANTIC GEAREX LS90

Version 1.2
Supersedes

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Issued by Atlantic Lubricants Pty. Ltd.

1. IDENTIFICATION OF THE SUBSTANCE/ PREPARATION AND COMPANY

Product Name : Atlantic Gearex LS90
Use : Gear Oil
Product Code : AGL9000
Company Name : Atlantic Lubricants Pty Ltd (ABN 67 088 335 059)
Address : 40 Liverpool Street Ingleburn NSW 2565
Telephone/ Fax No : Tel: (02) 9829 7555 Fax: (02) 9829 4555
Web : www.atlanticoil.com
Emergency Telephone : (02) 9829 7555
Poisons Information Centre (Aust. 13 11 26)
Other Product Information : (02) 8706 3240

2. HAZARD(S) IDENTIFICATION

Classification of the mixture : Classified as a Hazardous Chemical
Signal Word : **WARNING**
Pictograms :



Hazard Statements: **H317** May cause an allergic skin reaction
H401 Toxic to aquatic life

Additional Hazards: **H411** Toxic to aquatic life with long lasting effects

Precautionary Statements :

Prevention: **P261** Avoid breathing mist or spray.
P272 Contaminated work clothing must not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/face protection.



SAFETY DATA SHEET

2. HAZARD(S) IDENTIFICATION

(Continued)

Response: **P302+P352** IF ON SKIN: Wash with plenty of water.
P333+P313 If skin irritation or rash occurs: Get medical attention.
P363 Wash contaminated clothing before reuse.
P370+P378 IN CASE OF FIRE: Use media other than water to extinguish.
P391 Collect spillage.

Disposal: **P501** Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Poisons Schedule: Not Scheduled

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Highly refined base oil. (IP 346 DSMO extract <3%) Proprietary additives.

COMPONENT	%(w/w)	CAS NUMBER
Distillates, Petroleum, Hydrotreated heavy paraffinic	>90	N/A
Polysulfides, di-tert-Bu	<5	68937-96-2
Amines, C12-14-alkyl, C6-10-alkyl phosphates	<1	68603-55-4
Phosphoric acid, mono- and di-c6-10-alkyl esters	<1	68307-94-8
1,3,4-Thiadiazole-2(3H)-thione, 5-(tert-dodecyldithio)-	<0.1	73984-93-7
Other ingredients classified as not hazardous, or at levels not requiring classification according to Safe Work Australia	Balance	

4. FIRST AID MEASURES

Description of necessary first aid measures

- Eye** : If contact with the eye(s) occurs, wash with copious amounts of water, holding eyelids(s) open. Continue flushing for at least 15 minutes. Take care not to rinse contaminated water into the non-affected eye. If irritation develops and persists, seek medical attention.
- Inhalation** : Remove the source of contamination or move the victim to fresh air. Seek medical attention if symptoms occur.
- Ingestion** : Do NOT induce vomiting. Immediately wash out mouth with water. Get medical attention if symptoms occur.
- Skin** : Remove contaminated clothing. Wash gently and thoroughly with water and non-abrasive soap. Ensure contaminated clothing is washed before re-use or discard. If irritation develops, seek medical attention.
- Notes to physician** : Treat symptomatically with supportive care.

For further information contact Poisons Information Centre (Aust. 13 11 26)



SAFETY DATA SHEET

5. FIRE FIGHTING MEASURES

- Extinguishing Media** : Carbon dioxide, foam or dry chemical. Do NOT use water jets. Use water spray to cool fire exposed containers.
- Specific Hazards** : Combustible C2 liquid.
Fire-exposed container may rupture/explode.
- Hazards From Combustion Products** : Under fire conditions this product may emit toxic and/or irritating fumes including oxides of carbon.
- Precautions in Connection with Fire** : Self-Contained Breathing Apparatus (S.C.B.A) and full protective firefighting clothing.

6. ACCIDENTAL RELEASE MEASURES

Remove all sources of ignition. Increase ventilation. Evacuate all unnecessary personnel. Wear full protective equipment and clothing to minimise exposure. If possible, contain the spill. Place inert, non-combustible, absorbent material onto spillage. Use clean non-sparking tools to collect the material and place into a suitable labelled container.

Dispose of in accordance with State, Local Government, EPA or related Regulations or Codes of Practice. If large quantities of this material enter the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.

7. HANDLING AND STORAGE

- Handling** : Repeated or prolonged contact with this material should be avoided in order to lessen the possibility of skin disorders. It is essential that all who come into contact with this material maintain high standards of personal hygiene i.e. washing hands prior to eating, drinking or going to the toilet. Build-up of mists in the working atmosphere must be prevented. Misuse of empty containers can be hazardous. Do not cut, weld, heat or drill containers. Residue may ignite with explosive violence if heated sufficiently. Do not pressurise or expose to open flame or heat. Keep container closed and bung in place.
- Storage** : Combustible C2 liquid for storage and handling purposes. Store in a cool, dry, well-ventilated area, out of direct sunlight. Avoid sparks, flames, and other ignition sources. Store away from incompatible materials such as materials that support combustion (oxidising materials). Reference should be made to Australian Standard AS1940- The storage and handling of flammable and combustible liquids. Store in original packaging as approved by manufacturer or regulatory direction.



SAFETY DATA SHEET

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

- Exposure Limits** : An exposure standard has been established for this material:
OIL MIST, REFINED, MINERAL TWA 5mg/m³
by Safe Work Australia.
This applies only when the oil is released to air as a fine spray and is not expected to occur under ordinary conditions of use.
- Respiratory Protection** : If engineering controls are not effective in controlling airborne exposure then respiratory protective equipment should be used suitable for protecting against airborne contaminants. Final choice of appropriate breathing protection is dependent upon actual concentrations and the type of breathing protection required will vary according to individual circumstances. Expert advice may be required to make this decision. Reference should be made to Australian Standards AS/NZS 1715, selection. Use and maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices.
- Eye Protection** : Safety glasses with side shields, goggles or full-face shield is recommended. Final choice of appropriate eye/face protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 – Personal Eye Protection Part 1: Eye and Face Protectors for Industrial Applications.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

(Continued)

- Hand Protection** : Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.
- Body Protection** : Wear appropriate clothing including chemical resistant apron where clothing is likely to be contaminated. It is advisable that a local supplier of personal protective clothing is consulted regarding the choice of material.
- Engineering Controls** : Natural ventilation should be sufficient, however where vapours or mists are generated the use of a local exhaust ventilation system (drawing spray or mists away from workers breathing zone) is recommended.



SAFETY DATA SHEET

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Clear Amber/brown liquid
Odour	:	Mild
Solubility in Water	:	Not Soluble
pH Value	:	Not Provided
Electrostatic Stability	:	Not Provided
Vapour Pressure	:	Not Provided
Vapour Density	:	Not Provided
Flash Point	:	>200°C
Ignition Temperature	:	Not Provided
Melting Point	:	Not Provided
Boiling Point	:	Not Provided
Specific Gravity@ 15°C	:	0.889
Kinematic Viscosity cSt @ 40°C	:	147.6
cSt @ 100°C	:	15.5
Pour Point	:	Not Provided

10. STABILITY AND REACTIVITY

Stability	:	Stable under normal conditions.
Hazardous	:	Will not occur.
Polymerization		
Materials to Avoid	:	Strong oxidising agents.
Hazardous	:	Thermal decomposition may result in the release of
Decomposition		toxic and or irritating fumes including carbon monoxide and carbon
Products		dioxide.
Hazardous Reaction	:	Hazardous reaction with strong oxidising agents.
Conditions to avoid	:	Heat, direct sunlight, open flames or other sources of ignition.



SAFETY DATA SHEET

11. TOXICOLOGICAL INFORMATION

ACUTE HEALTH EFFECTS

- Toxicology Information** : No toxicity data is available for this material.
- Inhalation** : May cause irritation to the mucous membrane and upper airways, where material is heated and is used in poorly ventilated areas. Symptoms may include headache, dizziness and nausea.
- Ingestion** : May cause irritation of the gastrointestinal system. Symptoms may include nausea, vomiting and diarrhoea.
- Skin** : May cause mild irritation in contact with the skin, which may result in redness and itchiness, possibly leading to dermatitis.
- Eye** : May cause mild irritation in contact with the eyes which could result in redness, stinging and tearing.

CHRONIC HEALTH EFFECTS

- Chronic Effects** : Prolonged or repeated contact with this material may result in skin irritation possibly leading to dermatitis.

Polysulfides

- LD50 oral rat > 5000 mg/kg body weight (Rat, Similar product, Oral)
LD50 dermal rabbit > 2000 mg/kg body weight (Rabbit, Similar product, Dermal)

Distillates (petroleum), hydrotreated heavy paraffinic

- LD50 oral rat > 5000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method)

Amines, alkyl phosphates

- LD50 oral rat > 2500 mg/kg
LD50 dermal rat > 2000 mg/kg body weight

Phosphate ester

- LD50 oral rat > 2500 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), Guideline: EU Method B.1 tris (Acute Oral Toxicity - Acute Toxic Class Method), Guideline: EPA OPPTS 870.1100 (Acute Oral Toxicity), Guideline: other: Japanese Ministry of Agriculture, Forestry and Fisheries (MAFF), Testing Guidelines for Toxicology Studies, 12 NohSan No. 8147, amended 26 June 2001, Guideline: other: Japanese Ministry of Health and Welfare, 1992.



SAFETY DATA SHEET

11. TOXICOLOGICAL INFORMATION

(Continued)

LD50 dermal rat > 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Guideline: EPA OPPTS 870.1200 (Acute Dermal Toxicity), Guideline: other: Japanese Ministry of Agriculture, Forestry and Fisheries (MAFF), Testing Guidelines for Toxicology Studies, 12 NohSan No. 8147, amended 26 June 2001, Guideline: other: Japanese Ministry of Health and Welfare, 1992

Distillates (petroleum), hydrotreated heavy paraffinic

LOAEL (oral, rat, 90 days) 125 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

Phosphate ester

NOAEL (oral, rat, 90 days) 500 mg/kg body weight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Guideline: other: the Commission Regulation (EC) No 440/2008 of 30 May 2008 laying down test methods pursuant to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

OTHER INFORMATION

Used oils and greases may contain harmful impurities and contaminants that can accumulate during usage. Frequent or prolonged contact with all types and makes of used oil and grease must therefore be avoided.

12. ECOLOGICAL INFORMATION

Polysulfides

LC50 - Fish [1] > 0.088 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1] 0.24 mg/l Test organisms (species): Daphnia magna

Amines, alkyl phosphates

LC50 - Fish [1] 1 (1 – 10) mg/l

Phosphate ester

LC50 - Fish [1] > 100 mg/l
EC50 - Crustacea [1] > 100 mg/l



SAFETY DATA SHEET

12. ECOLOGICAL INFORMATION

(Continued)

Ecotoxicity	:	Harmful to aquatic life.
Persistence /Degradability	:	Not expected to be readily biodegradable.
Mobility	:	Floats on water. Will be absorbed by earth.
Bioaccumulation	:	May bioaccumulate.
Environmental Protection	:	Prevent this material from entering the environment.

13. DISPOSAL CONSIDERATIONS

Dispose of waste according to state E.P.A. regulations. Assure conformity with all applicable regulations.

14. TRANSPORT INFORMATION

Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

U.N. NUMBER	:	None Allocated
PROPER SHIPPING NAME	:	None Allocated
DG CLASS	:	None Allocated
SUBSIDIARY HAZARD	:	None Allocated
HAZCHEM CODE	:	None Allocated
PACKING GROUP	:	None Allocated

15. REGULATORY INFORMATION

POISONS SCHEDULE	:	Not scheduled
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16. OTHER INFORMATION

REFERENCES	:	AS/NZS 1715 - Use and maintenance of Respiratory Protective Devices. AS/NZS 1716 - Respiratory Protective Devices. AS/NZS 1337 - Personal eye protection Part 1: Eye and face protectors for occupational applications. AS/NZS 2161.1 - Occupational protective gloves. AS 1940 - The storage and handling of flammable and combustible liquids.
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SAFETY DATA SHEET

16. OTHER INFORMATION

(Continued)

CONTACT

For information concerning details on this Safety Data Sheet contact Atlantic Technical Help Line on (02) 8706 3240.

All reasonable care has been taken to ensure that the information and advice contained herein are accurate at the time of printing. However, Atlantic accepts no tortious or contractual liability for any loss or damages suffered as a consequence of reliance on the information and advice contained herein.

THIS SDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE. IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.