



SAFETY DATA SHEET

ATLANTIC OPTI-X EURO PURPLE COOLANT CONCENTRATE

Version 1.0

Issue Date: 05/03/2024

Issued by Atlantic Lubricants Pty. Ltd.

1. IDENTIFICATION OF THE SUBSTANCE/ PREPARATION AND COMPANY

Product Name : Atlantic Opti-X Euro Purple Coolant Concentrate
Use : Engine Coolant
Product Code : OXEPC00
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 hazardous under GHS for Australia criteria
Hazard Classification : Acute Toxicity (Oral) Category 4
Specific Target Organ Toxicity – Repeated Exposure
Category 2

Signal Word : **Warning**

Pictograms :



Hazard Statements: **H302** Harmful if swallowed.

H373 May cause damage to organs through prolonged or repeated exposure.
(Kidneys)



SAFETY DATA SHEET

2. HAZARD(S) IDENTIFICATION

(Continued)

Precautionary Statements:

Prevention: P102 Keep out of reach of children.

P101 If medical advice is needed, have product container or label at hand.

P260 Do not breathe mist/vapours/spray.

P264 Wash all exposed external body areas thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves, protective clothing and eye protection.

Response: P301 + P312 + P330 IF SWALLOWED: Call Poisons Information Centre (Aust. 13 11 26) or doctor/ physician if you feel unwell. Rinse mouth.

Disposal: P501 Dispose of container and used or unused contents as hazardous waste.

Poisons Schedule: 5

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Substance/ Mixture: Ethylene Glycol; Ethanediol/ Mixture

COMPONENT	%(w/w)	CAS NUMBER
Ethylene Glycol	≥90%	107-21-1
Denatonium Benzoate	<0.01%	3734-33-6
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 eye contact occurs:
Remove contact lenses if present.
Hold eye open.
Wash carefully with plenty of water for 15 minutes.
Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.
Seek medical attention if symptoms occur.
- Skin** : If skin contact occurs:
Flush skin with plenty of water for at least 15 mins while removing all contaminated clothing including shoes.
Wash clothing and shoes before reuse.
Seek medical attention if event of irritation.
- Inhalation** : Remove from exposure.
Move to fresh air.
Seek medical attention if symptoms occur.



SAFETY DATA SHEET

4. FIRST AID MEASURES

(Continued)

Ingestion : For advice, contact the Poisons Information Centre (Aust. 13 11 26) or a doctor. Seek immediate medical attention, urgent hospital treatment is likely to be needed.

Transport casualty together with the product container, its label, or the safety data sheet urgently to hospital. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Ethylene Glycol: Gastric irrigation, ethanol or fomepizole may have value in treatment. Consult physician.

Protection of First-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Carbon dioxide, alcohol stable foam, dry chemical powder or water fog.

Specific Hazards: Avoid contamination with strong oxidising agents, concentrated mineral acids, alkali metals and isocyanates.

Fire Fighting : Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water course. Use water delivered as a fine spray to control fire and cool adjacent area.

Fire/ Explosion Hazard : Combustible. Slight fire hazard when exposed to heat or flame. Heating may cause expansion or decomposition leading to violent rupture of containers. Product is a mobile liquid. Oxides of carbon are involved in combustion. May emit poisonous and corrosive fumes.

6. ACCIDENTAL RELEASE MEASURES

Spills or Leaks : Restrict access to area until clean-up is completed. Floors may be slippery; use care to avoid falling. Wear PPE as per this SDS. Create bund. Absorb / contain waste, use earth, vermiculite, inert material. Collect and seal in appropriate container.



SAFETY DATA SHEET

6. ACCIDENTAL RELEASE MEASURES

(Continued)

Label the container.
Observe regulatory reporting requirements (Incident Notification)
Protect drains from potential spills to minimise contamination.
Notify the relevant authorities if the product has caused environmental pollution (sewers, waterways or soil etc.).
In the case of large spills contact the appropriate authorities.

Disposal : Dispose of in accordance with States, Local Government, EPA or related Regulations or Codes of Practice.

7. HANDLING AND STORAGE

Handling : Eye wash and safety shower to be available in the workplace.
Wear PPE as per this SDS
Compliant eyewash to be provided for external work.
Observe good personal hygiene practices.
Wash hands thoroughly after handling.
Avoid contact with skin and eyes.
Do NOT allow clothing wet with material to stay in contact with skin.
Use only in well ventilated areas.
Ensure Exposure Standard is not exceeded.
Wear respiratory protection if vapours or spray or mist is present.
No eating or drinking in the work area.

Storage : 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. Provide spill kit.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Occupational Exposure Limits :

Ingredient	Material Name	CAS-No.	Type	Value
Ethylene Glycol	Ethylene Glycol (Vapour)	107-21-1	TWA	52 mg/m ³ – 8 hours
			STEL	104 mg/m ³ – 15 minutes
	Ethylene Glycol (Particulate)	107-21-1	TWA	20 ppm – 8 hours
			STEL	40 ppm – 15 minutes
			TWA	10mg/m ³ – 8 hours

TWA : The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

STEL : (Short Term Exposure Limit) - the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday



SAFETY DATA SHEET

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

(Continued)

- 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, or goggles 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.
- 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 or overalls where clothing is likely to be contaminated. Wear safety footwear or safety gumboots. 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance** : Purple Liquid
- Odour** : Mild
- Solubility in Water** : Miscible with water
- pH as a solution** : 8.0 – 9.5
- Relative Density** : 1.11 -1.13 g/cm³ @ 20°C
- Flash Point** : >120°C
- Melting Point** : Not Provided
- Boiling Point** : >160°C
- Specific Gravity@ 15°C** : Not Provided
- Kinematic Viscosity cSt @ 40°C** : Not Provided
- cSt @ 100°C** : Not Provided
- Evaporation Rate** : Not Provided



SAFETY DATA SHEET

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

SPECIFIC TARGET ORGAN TOXICITY (Repeated exposure)

Name	Category	Route of exposure	Target organs
Ethylene glycol	2	Oral	Kidneys

ACUTE HEALTH EFFECTS

- Inhalation** : Vapour inhalation under ambient conditions is not normally a problem due to low vapour pressure.
- Ingestion** : Harmful if swallowed. Ingestion of ethylene glycol can cause metabolic acidosis, kidney damage, central nervous system depression, and convulsions. The estimated human lethal dose is approximately 100 ml (3.4 ounces for an adult).
- Skin** : The material may accentuate any pre-existing dermatitis condition.
- Eye** : May cause mild to moderate irritation.

CHRONIC HEALTH EFFECTS

- Inhalation** : Overexposure to the inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract.
- Ingestion** : Harmful if swallowed. Ingestion of ethylene glycol can cause metabolic acidosis, kidney damage, central nervous system depression, and convulsions. The estimated human lethal dose is approximately 100 ml (3.4 ounces for an adult).



SAFETY DATA SHEET

11. TOXICOLOGICAL INFORMATION

(Continued)

- Skin** : The material may accentuate any pre-existing dermatitis condition. Open cuts, abraded or irritated skin should not be exposed to this material. Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.
- Eye** : May cause mild to moderate irritation. Repeated or prolonged eye contact may cause inflammation characterised by temporary redness (similar to windburn) of the conjunctiva (conjunctivitis); temporary impairment of vision and/or other transient eye damage/ulceration may occur.
- Fertility Effects** : There is some evidence to provide a presumption that human exposure to the material may result in impaired fertility on the basis of: some evidence in animal studies of impaired fertility in the absence of toxic effects, or evidence of impaired fertility occurring at around the same dose levels as other toxic effects but which is not a secondary non-specific consequence of other toxic effects. There is some evidence that human exposure to the material may result in developmental toxicity. This evidence is based on animal studies where effects have been observed in the absence of marked maternal toxicity, or at around the same dose levels as other toxic effects but which are not secondary non-specific consequences of the other toxic effects.
- General** : May cause damage to organs through prolonged or repeated exposure. (kidney)
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards
- Teratogenicity** : No known significant effects or critical hazards

NUMERICAL MEASURES OF TOXICITY

- Acute Toxicity Estimate** : **Route:** Oral **ATE Value:** 971 mg/kg



SAFETY DATA SHEET

12. ECOLOGICAL INFORMATION

Ecotoxicity	:	No ecotoxicity studies have been done on this product. This product is toxic to aquatic life.
Persistence /Degradability Water/ Soil	:	Expected to be biodegradable.
Mobility	:	Spillages may penetrate the soil causing ground water contamination.
Bioaccumulation	:	This product is not expected to bioaccumulate through food chains in the environment.
Environmental Protection	:	Prevent this material from entering the environment. Do not discharge into sewer or waterways.

13. DISPOSAL CONSIDERATIONS

Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Do not dispose down drains or to soil or landfill. Dispose of waste according to state E.P.A. regulations. Use a licensed waste contractor and assure conformity with all applicable regulations.

14. TRANSPORT INFORMATION

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

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

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



SAFETY DATA SHEET

15. REGULATORY INFORMATION

Consumer products - This material is a scheduled poison and must be stored, maintained and used in accordance with the relevant regulations.

Industrial Products - Labelling requirements for SUSMP do not apply to a poison that is packed and sold solely for industrial, laboratory or manufacturing use. However, this product is labelled in accordance with NOSHC National Code of Practice for labelling of workplace substances.

This material/constituent(s) is covered by the following requirements:

The Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) established under the Therapeutic Goods Act (Commonwealth).

HSNO Group Standard: HSR002606 - Lubricants, Lubricant Additives, Coolants and Anti-freeze Agents (Subsidiary Hazard) Group Standard

COUNTRY/ REGION	:	Australia
AUSTRALIA INVENTORY (AIIC)	:	All components are listed or exempted
POISONS SCHEDULE	:	5

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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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.

End of Safety Data Sheet