

SAFETY DATA SHEET (SDS) Afrox Torch Coolant


Please ensure that this SDS is received by the appropriate persons

Review Date: 28/08/2023 v01

Emergency: 0860 02 02 02

Document Number: AFX-SDS-0080

1. PRODUCT AND COMPANY IDENTIFICATION	
Product Synonym	Afrox Torch Coolant
Chemical Formula	C ₂ H ₆ O ₂ + H ₂ O Formula A blend of Ethylene glycol<25% and water
Trade Name	Afrox Torch Coolant
Packaging	5L
Product Code	W053576
Company Identification	African Oxygen Limited Grayston Office Park Building 7 128 Peter Road Sandown, Sandton, 2196 Tel. No: (011) 490-0400 Fax No: (011) 490-0530 Email: customer.service@afrox.linde.com www.afrox.com
Emergency Numbers	0860 02 02 02 (Afrox)

2. HAZARD IDENTIFICATION	
Classification	Classification under South African Hazardous Chemical Substances Regulations subsequently amended. (HCS) Classification under the Globally Harmonized System of classification and labelling of chemicals (GHS)
Emergency Overview	Colour: None Odour: None Taste: None Physical State: Liquid
Main Hazards	Irritating and nauseating when ingested Irritating, risk of Dermatitis
Adverse Health Effects	Avoid exposure to vapours, fumes and mists
Chemical Hazards	TORCH COOLANT is non-flammable
Biological Hazards	None
Vapour Inhalation	Avoid exposure to vapours, fumes and mists Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention
GHS Classification	Acute toxicity — Oral – category 4 Specific target organ toxicity — Repeated exposure, Target Organs - Kidney, Liver – category 2 Specific target organ toxicity (single exposure) Target Organs - Central nervous system (CNS) - Category 3
GHS Pictogram	

GHS Signal Words	Warning
GHS Hazard Statements	H302: Harmful if swallowed H373: May cause damage to organs through prolonged or repeated exposure if swallowed H336: May cause drowsiness or dizziness
GHS Precautionary Statements	Prevention: P264: Wash skin thoroughly after handling P270: Do not eat, drink or smoke when using this product P260: Do not breathe dust/fume/gas/mist/vapours/spray P271: Use only outdoors or in a well-ventilated area Response: P301 + P312: IF SWALLOWED: Call a POISON CENTRE/ doctor if you feel unwell P330: Rinse mouth P314: Get medical advice/attention if you feel unwell P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing Storage: P403 + P233: Store in a well-ventilated place. Keep container tightly closed. - if product is volatile so as to generate hazardous atmosphere P405: Store locked up Disposal: P501: Dispose of contents/container in accordance with local/regional/national/international regulations as hazardous waste
Other Hazards that do not result in classification	None

3. COMPOSITION OF INGREDIENTS	
Chemical name	Ethane-1,2-diol
Chemical family	
CAS No	107-21-1
UN No	3082
ERG No	171
EC No	603-027-00-1
Hazard class	9
Hazchem Warning	Non-Flammable

4. FIRST AID MEASURES	
Eye contact	Rinse immediately with plenty of water. Seek medical advice if symptoms persist
Skin Contact	Use hand cleaner/soap and water. Remove contaminated clothing. If any discomfort, get medical attention.
Ingestion	Wash mouth with plenty of water. DO NOT induce vomiting. Seek medical attention Seek medical advice

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Inhalation	Irritant in case of inhalation. Move to fresh air.
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5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Use water spray, fog or foam Non-combustible
Unsuitable extinguishing media:	None
Specific Hazards	When handling the liquid, rubber gloves and eye protection should be worn No direct explosion hazard expected.
Special fire fighting procedures:	None required. This product is flammable. Remove containers from the vicinity of the fire if safe to do so. Keep containers cool that cannot be removed.
Special protective equipment for firefighters:	Eye protection and protective gloves should be worn when handling the product for lengthy periods of time.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions.	Eye protection and protective gloves should be worn when handling the product for lengthy periods of time
Environmental Precautions	Keep out of drains and sewers
Methods and material for containment and cleaning up:	Contain and collect

7. HANDLING AND STORAGE

Safe Handling	Store in a cool, dry, well-ventilated area, out of direct sunlight. Use a "First in-First-Out" inventory system to prevent full containers being stored for excessive periods of time. Keep out of reach of children.
Conditions for safe storage, including any incompatibilities	Exposure to excessive heat for prolonged periods Ensure good stock rotation practices

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational Exposure Hazards (HCS)	OEL eight-hour TWA 50(V)ppm OEL-STEL/C 100(V) ppm OEL-STEL/C 20(H) mg/m3
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Engineering Control Measures	Ventilation should be provided. Ensure that eye wash stations and safety showers are proximal to the work-station location
Personal Protection	Eye protection and protective gloves should be worn when handling the product for lengthy periods of time
Eyes	Safety glasses
Hands	Use face shield and goggles or fullface respirator/hood. Avoid direct contact
Body protection:	Use barrier cream and impervious gloves
Feet	None

9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical Name	Afrox TORCH COOLANT
Chemical Symbol	C ₂ H ₆ O ₂ + H ₂ O
Physical state	Liquid
Form:	Liquid
Colour:	Clear liquid
Odour:	Odourless
Odour Threshold:	Odourless
pH:	Neutral
Melting Point:	No data
Boiling Point:	149.3°C
Sublimation Point:	No data
Critical Temp. (°C):	No data
Flash Point:	No data
Evaporation Rate:	No data
Flammability (solid, gas):	Non-Flammable liquid
Flammability limit - upper (%):	Non-flammable
Flammability limit - lower(%):	Non-flammable
Vapour density:	1.11g/l
Liquid density	1.11g/cm ³
Relative density water=1:	1.11
Solubility in Water:	Soluble in water
Partition coefficient (n-octanol/water):	No data
Autoignition Temperature:	No data
Decomposition Temperature:	No data
Kinematic viscosity:	1.61x10 ⁻² Pa·s
Dynamic viscosity:	No data
Explosive properties:	Not applicable
Oxidising Properties:	Not applicable
Molecular weight	62.07

10. STABILITY AND REACTIVITY

Reactivity	Not reactive under normal conditions
Chemical stability	Hygroscopic
Possibility of hazardous reactions	No data

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Conditions to avoid	Open flame and electrical discharge
Incompatible Materials	Strong oxidizing agents, Strong acids, Strong bases, Aldehydes
Hazardous Decomposition of Products	Carbon monoxide (CO), Carbon dioxide (CO ₂)

11. TOXOLOGICAL INFORMATION

Acute Toxicity	Very hazardous in case of inhalation Delayed and immediate effects as well as chronic effects from short and long-term exposure
Skin & eye contact	May cause skin, eye, and respiratory tract irritation
Chronic Toxicity	Very hazardous in case of ingestion
Carcinogenicity	No carcinogenic, mutagenic or genetic effects established
Mutagenicity	No carcinogenic, mutagenic or genetic effects established.
Reproductive Hazards	No carcinogenic, mutagenic or effects established

12. ECOLOGICAL INFORMATION

Toxicity	Death of animals, birds or fish and death or low growth rate in plants Do not empty into drains
Persistence and degradability	Persistence is unlikely
Bioaccumulative Potential Product	No information available
Mobility in soil	Will likely be mobile in the environment due to its water solubility
Results of PBT and vPvB assessment	No data
Other adverse effects	No data
Effect on ozone layer	No data
Effect on the global warming (CO₂=1)	No data

13. DISPOSAL CONSIDERATIONS

Disposal Methods	Product must be removed by a reputable waste disposal company
Disposal of Packaging	Product must be removed by a reputable waste disposal company

14. TRANSPORT INFORMATION

Road Transportation	
UN No.	3082
Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
ERG No.	171

Class	9
Subsidiary Risk	No information available
Hazchem Warning	M6 Toxic, Non-Flammable,
IMDG	3082
Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
ERG No.	171
Class	9
Subsidiary Risk	No information available
Label	Toxic, Non-flammable Liquid
ICAO/IATA Code	None
Class	9
Packing Group:	III
Packaging instructions	Passenger 75 kg Cargo 150 kg

15. REGULATORY INFORMATION

EEC Hazard class: Not classified as hazardous
National legislation OHSact and Regulations 85 of 1993.

SANS 11014:2010 Edition 1	Safety data sheet for chemical products - Content and order of sections
SANS 10228:2012 Edition 6	The identification and classification of dangerous goods for transport by road and rail modes
SANS 10234:2019	Globally Harmonized System of classification and labelling of chemicals (GHS)
SUPPLEMENT TO SANS 10234 Edition 1	List of classification and labelling of chemicals in accordance with the Globally Harmonized System (GHS)

16. OTHER INFORMATION

- Ensure all national/local regulations are observed.
- Ensure users and relevant persons understand the asphyxiation hazard
- Regularly check supplier's information sources for updated versions of SDS's

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Bibliography

Perry Chemical Engineering 6th Edition
Matheson Gas Data Book - 6th Edition
SANS 11014 - Safety data sheet for chemical products: Content and order of sections
SANS 10234 - List of classification and labelling of chemicals in accordance with the Globally Harmonized System (GHS)
SANS 10265 – Classification and Labelling of Dangerous Substances

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