

## 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	C2H6O2 + H2O 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: <a href="mailto:customer.service@afrox.linde.com">customer.service@afrox.linde.com</a> <a href="http://www.afrox.com">www.afrox.com</a>
Emergency Numbers	<b>0860 02 02 02 (Afrox)</b>

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	<b>H302:</b> Harmful if swallowed <b>H373:</b> May cause damage to organs through prolonged or repeated exposure if swallowed <b>H336:</b> May cause drowsiness or dizziness
GHS Precautionary Statements	<b>Prevention:</b> <b>P264:</b> Wash skin thoroughly after handling <b>P270:</b> Do not eat, drink or smoke when using this product <b>P260:</b> Do not breathe dust/fume/gas/mist/vapours/spray <b>P271:</b> Use only outdoors or in a well-ventilated area <b>Response:</b> <b>P301 + P312:</b> IF SWALLOWED: Call a POISON CENTRE/ doctor if you feel unwell <b>P330:</b> Rinse mouth <b>P314:</b> Get medical advice/attention if you feel unwell <b>P304 + P340:</b> IF INHALED: Remove person to fresh air and keep comfortable for breathing <b>Storage:</b> <b>P403 + P233:</b> Store in a well-ventilated place. Keep container tightly closed. - if product is volatile so as to generate hazardous atmosphere <b>P405:</b> Store locked up <b>Disposal:</b> <b>P501:</b> 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

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	Seek medical advice
<b>Inhalation</b>	Irritant in case of inhalation. Move to fresh air.

### 5. FIRE-FIGHTING MEASURES

<b>Suitable extinguishing media</b>	Use water spray, fog or foam Non-combustible
<b>Unsuitable extinguishing media:</b>	None
<b>Specific Hazards</b>	When handling the liquid, rubber gloves and eye protection should be worn No direct explosion hazard expected.
<b>Special fire fighting procedures:</b>	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.
<b>Special protective equipment for firefighters:</b>	Eye protection and protective gloves should be worn when handling the product for lengthy periods of time.

### 6. ACCIDENTAL RELEASE MEASURES

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

### 7. HANDLING AND STORAGE

<b>Safe Handling</b>	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.
<b>Conditions for safe storage, including any incompatibilities</b>	Exposure to excessive heat for prolonged periods Ensure good stock rotation practices

### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

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

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical Name	Afrox TORCH COOLANT
<b>Chemical Symbol</b>	C <sub>2</sub> H <sub>6</sub> O <sub>2</sub> + H <sub>2</sub> O
<b>Physical state</b>	Liquid
<b>Form:</b>	Liquid
<b>Colour:</b>	Clear liquid
<b>Odour:</b>	Odourless
<b>Odour Threshold:</b>	Odourless
<b>pH:</b>	Neutral
<b>Melting Point:</b>	No data
<b>Boiling Point:</b>	149.3°C
<b>Sublimation Point:</b>	No data
<b>Critical Temp. (°C):</b>	No data
<b>Flash Point:</b>	No data
<b>Evaporation Rate:</b>	No data
<b>Flammability (solid, gas):</b>	Non-Flammable liquid
<b>Flammability limit - upper (%):</b>	Non-flammable
<b>Flammability limit - lower(%):</b>	Non-flammable
<b>Vapour density:</b>	1.11g/l
<b>Liquid density</b>	1.11g/cm <sup>3</sup>
<b>Relative density water=1:</b>	1.11
<b>Solubility in Water:</b>	Soluble in water
<b>Partition coefficient (n-octanol/water):</b>	No data
<b>Autoignition Temperature:</b>	No data
<b>Decomposition Temperature:</b>	No data
<b>Kinematic viscosity:</b>	1.61×10 <sup>-2</sup> Pa·s
<b>Dynamic viscosity:</b>	No data
<b>Explosive properties:</b>	Not applicable
<b>Oxidising Properties:</b>	Not applicable
<b>Molecular weight</b>	62.07

### 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	Not reactive under normal conditions
<b>Chemical stability</b>	Hygroscopic
<b>Possibility of hazardous reactions</b>	No data

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

### 11. TOXOLOGICAL INFORMATION

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

### 12. ECOLOGICAL INFORMATION

<b>Toxicity</b>	Death of animals, birds or fish and death or low growth rate in plants Do not empty into drains
<b>Persistence and degradability</b>	Persistence is unlikely
<b>Bioaccumulative Potential Product</b>	No information available
<b>Mobility in soil</b>	Will likely be mobile in the environment due to its water solubility
<b>Results of PBT and vPvB assessment</b>	No data
<b>Other adverse effects</b>	No data
<b>Effect on ozone layer</b>	No data
<b>Effect on the global warming (CO<sub>2</sub>=1)</b>	No data

### 13. DISPOSAL CONSIDERATIONS

<b>Disposal Methods</b>	Product must be removed by a reputable waste disposal company
<b>Disposal of Packaging</b>	Product must be removed by a reputable waste disposal company

### 14. TRANSPORT INFORMATION

#### Road Transportation

<b>UN No.</b>	3082
<b>Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
<b>ERG No.</b>	171

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

### 15. REGULATORY INFORMATION

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

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

**Revision Date** 28/08/2023 v01

#### Bibliography

Perry Chemical Engineering 6<sup>th</sup> 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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