

**SAFETY DATA SHEET (SDS)**  
**ARDROX HF-R\_9PR5**

Please ensure that this SDS is received by the appropriate persons


Review Date: 30/08/2023 v01

Emergency: 0860 02 02 02

Document Number: AFX-SDS-0076

1. PRODUCT AND COMPANY IDENTIFICATION	
<b>Product Synonym</b>	ARDROX HF-R_9PR5 NDT Remover
<b>Chemical Formula</b>	n-Hexane C <sub>6</sub> H <sub>14</sub>
<b>Trade Name</b>	ARDROX HF-R_9PR5
<b>Package</b>	400 ml can
<b>Product Code</b>	W033572
<b>Company Identification</b>	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>
<b>Emergency Numbers</b>	<b>0860 02 02 02 (Afrox)</b>

2. HAZARD IDENTIFICATION	
<b>Classification</b>	Classification under South African Hazardous Chemical Substances Regulations subsequently amended. (HCS) Classification under the Globally Harmonized System of classification and labelling of chemicals (GHS)
<b>Emergency Overview</b>	Colour: None Odour: None Taste: None Physical State: Liquid
<b>Main Hazards</b>	Irritating to skin
<b>Adverse Health Effects</b>	Harmful: danger of serious damage to health by prolonged exposure through inhalation. Possible risk of impaired fertility Danger! Extremely flammable liquid and vapour. Vapour may cause flash fire. Harmful if swallowed or inhaled. Causes irritation to skin, eyes and respiratory tract. Affects central nervous system.
<b>Chemical Hazards</b>	ARDROX HF-R_9PR5 is Highly Flammable Danger! Extremely flammable liquid and vapour. Vapour may cause flash fire
<b>Biological Hazards</b>	hazardous to the aquatic environment
<b>Vapour Inhalation</b>	Danger of serious damage to health by prolonged exposure through inhalation Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention
<b>GHS Classification</b>	Extremely Flammable aerosol –Category 1 Aspiration hazard - Category 1 Skin corrosion/ irritation – Category 2 Specific target organ toxicity — Single exposure - Category 3 Toxic to reproduction – Category 2 Specific target organ toxicity — Repeated exposure – Category 2 Hazardous to the aquatic environment — Chronic hazard – Category 2 Aerosols – Category 1

	Hazardous to the aquatic environment — Acute hazard – category 3 Specific target organ toxicity — Single exposure– Category 2
<b>GHS Pictogram</b>	
<b>GHS Signal Words</b>	Danger
<b>GHS Hazard Statements</b>	<b>H222</b> Extremely flammable aerosol <b>H304</b> May be fatal if swallowed and enters airways <b>H315</b> Causes skin irritation <b>H336</b> May cause drowsiness or dizziness <b>H361</b> If Suspected of damaging fertility or the unborn child <b>H373</b> May cause damage to organs through prolonged or repeated exposure <b>H411</b> Toxic to aquatic life with long lasting effects <b>H229</b> Pressurized container: May burst if heated <b>H402</b> Harmful to aquatic life <b>H371</b> May cause damage to organs
<b>GHS Precautionary Statements</b>	<b>Prevention:</b> <b>P210:</b> Keep away from heat/sparks/open flames/hot surfaces. No smoking <b>P211:</b> Do not spray on an open flame or other ignition source <b>P251:</b> Do not pierce or burn, even after use <b>P264:</b> Wash skin thoroughly after handling <b>P280:</b> Wear protective gloves/clothing/eye protection/face protection <b>P261:</b> Avoid breathing fumes/gas/mist/vapours/spray <b>P271:</b> Use only outdoors or in a well-ventilated area <b>P201:</b> Obtain special instructions before use <b>P202:</b> Do not handle until all safety precautions have been read and understood <b>P273:</b> Avoid release to the environment <b>P270:</b> Do not eat, drink or smoke when using this product  <b>Response:</b> <b>P301 + P310:</b> IF SWALLOWED: Immediately call a POISON CENTRE/ doctor <b>P331:</b> Do NOT induce vomiting <b>P302 + P352:</b> IF ON SKIN: Wash with plenty water <b>P321:</b> Specific treatment see section 4 first aid treatment <b>P332 + P313:</b> If skin irritation occurs: Get medical advice/attention. <b>P362 + P364:</b> Take off contaminated clothing and wash it before reuse <b>P304 + P340:</b> IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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	<p><b>P312:</b> Call a POISON CENTRE/doctor if you feel unwell  <b>P308 + P313:</b> IF exposed or concerned: Get medical advice/attention  <b>P314:</b> Get medical advice/attention if you feel unwell  <b>P391:</b> Collect spillage</p> <p><b>Storage:</b>  <b>P410 + P412:</b> Protect from sunlight. Do not expose to temperatures exceeding 50 °C  <b>P405:</b> Store locked up  <b>P403 + P233:</b> Store in a well-ventilated place. Keep container tightly closed. - if product is volatile so as to generate hazardous atmosphere.</p> <p><b>Disposal:</b>  <b>P501:</b> Dispose of contents and container to hazardous or special waste collection point</p>
<b>Other Hazards that do not result in classification</b>	Aspiration Hazard

5. FIRE-FIGHTING MEASURES	
<b>Suitable extinguishing media</b>	SMALL FIRE: Use DRY chemical powder. Media LARGE FIRE: Use water spray OR fog. Cool containing vessels with water jet in order to prevent pressure build-up, auto-ignition or explosion
<b>Unsuitable extinguishing media:</b>	Do not use water jet.
<b>Specific Hazards</b>	This ARDROX HF-R_9PR5 fluid is extremely flammable. When handling the liquid, rubber gloves and eye protection should be worn
<b>Special fire fighting procedures:</b>	Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.
<b>Special protective equipment for firefighters:</b>	Eye protection and protective gloves should be worn when handling the product for lengthy periods of time. e sure to use an approved / certified respirator or equivalent.

3. COMPOSITION OF INGREDIENTS	
<b>Chemical name</b>	n-Hexane
<b>Chemical family</b>	
<b>CAS No</b>	110-54-3
<b>UN No</b>	1208
<b>ERG No</b>	128
<b>EC No</b>	203-777-6
<b>Hazard class</b>	3
<b>Hazchem Warning</b>	F1 Flammable

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. Splash goggles. Overalls. Vapour respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product.
<b>Environmental Precautions</b>	Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Do not get water inside container. Prevent entry into sewers, basements or confined areas; dike if needed.
<b>Methods and material for containment and cleaning up:</b>	Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Call for assistance on disposal. Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Call for assistance on disposal

4. FIRST AID MEASURES	
<b>Eye contact</b>	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Get medical attention
<b>Skin Contact</b>	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before re-use. Thoroughly clean shoes before re-use. Get medical attention
<b>Ingestion</b>	DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear
<b>Inhalation</b>	Very hazardous in case of inhalation. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is Effects and difficult, give oxygen. Get medical attention.

7. HANDLING AND STORAGE	
<b>Safe Handling</b>	Keep locked up. Keep away from heat. Keep away from source of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas / fumes / vapour / spray. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label
<b>Conditions for safe storage, including any incompatibilities</b>	Exposure to excessive heat for prolonged periods Ensure good stock rotation practices. Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container lightly closed and sealed until ready for use. Avoid all possible

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	sources of ignition (spark or flame). Use original container.
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8. EXPOSURE CONTROLS AND PERSONAL PROTECTION	
<b>Occupational Exposure Hazards (HCS)</b>	OEL eight-hour TWA 100ppm
<b>Engineering Control Measures</b>	Ventilation should be provided. Ensure that eye wash stations and safety showers are proximal to the work-station location Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits. 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 Wash hands, forearms, and face thoroughly after handling compounds and before eating, smoking, using toilet, and at end of the day
<b>Eyes</b>	Safety glasses
<b>Hands</b>	Protective gloves
<b>Body protection:</b>	Overalls
<b>Feet</b>	Safety shoes

9. PHYSICAL AND CHEMICAL PROPERTIES	
<b>Chemical Name</b>	ARDROX HF-R_9PR5
<b>Chemical Symbol</b>	C <sub>6</sub> H <sub>14</sub>
<b>Physical state</b>	Liquid
<b>Form:</b>	Liquid
<b>Colour:</b>	Light, Colourless
<b>Odour:</b>	Petroleum odour
<b>Odour Threshold:</b>	Weighted average: 86.5ppm
<b>pH:</b>	Neutral
<b>Melting Point:</b>	-95°C
<b>Boiling Point:</b>	69°C
<b>Sublimation Point:</b>	No data
<b>Critical Temp. (°C):</b>	No data
<b>Flash Point:</b>	2°C
<b>Evaporation Rate:</b>	6.82
<b>Flammability (solid, gas):</b>	Flammable liquid
<b>Flammability limit - upper (%):</b>	7.5%
<b>Flammability limit - lower(%):</b>	1.1%
<b>Vapour density 20°C:</b>	3.58g/l
<b>Liquid density</b>	0.66-0.68g/cm <sup>3</sup>
<b>Relative density water=1:</b>	0.66-0.68
<b>Solubility(ies)</b>	
<b>Solubility in Water:</b>	Not soluble in water
<b>Partition coefficient (n-octanol/water):</b>	No data

<b>Autoignition Temperature:</b>	225°C
<b>Decomposition Temperature:</b>	No data
<b>Viscosity</b>	
<b>Kinematic viscosity:</b>	0.31 cP
<b>Dynamic viscosity:</b>	No data
<b>Explosive properties:</b>	Not applicable
<b>Oxidising Properties:</b>	Not applicable
<b>Molecular weight</b>	86 g/mol

10. STABILITY AND REACTIVITY	
<b>Reactivity</b>	Not reactive under normal conditions
<b>Chemical stability</b>	Stable under normal conditions
<b>Possibility of hazardous reactions</b>	No data
<b>Conditions to avoid</b>	Open flame and electrical discharge
<b>Incompatible Materials</b>	Strong oxidisers
<b>Hazardous Decomposition of Products</b>	No data

11. TOXOLOGICAL INFORMATION	
<b>Acute Toxicity</b>	Very hazardous in case of inhalation.
<b>Skin &amp; eye contact</b>	Irritating to skin seek medical help immediately.
<b>Chronic Toxicity</b>	Very hazardous in case of ingestion
<b>Carcinogenicity</b>	No data
<b>Mutagenicity</b>	No data
<b>Reproductive Hazards</b>	No data

12. ECOLOGICAL INFORMATION	
<b>Toxicity</b>	OSHA 100 ppm 8hr weighted ave
<b>Persistence and degradability</b>	No data
<b>Bioaccumulative Potential Product</b>	No data
<b>Mobility in soil</b>	No data
<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. Recover or recycle if possible, otherwise incineration. Aerosol cans (used or unused) should be disposed of,

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	without puncturing, via a licensed waste disposal contractor
<b>Disposal of Packaging</b>	As per regulation for aerosol cans.

<b>EXCLUSION OF LIABILITY</b>
Whilst AFROX made best endeavour to ensure that the information contained in this publication is accurate at the date of publication, AFROX does not accept liability for an inaccuracy or liability arising from the use of this information, or the use, application, adaptation or process of any products described herein.

<b>14. TRANSPORT INFORMATION</b>	
<b>Road Transportation</b>	
<b>UN No.</b>	1950
<b>Shipping Name</b>	ARDROX HF-R_9PR5
<b>ERG No.</b>	126
<b>Class</b>	2
<b>Subsidiary Risk</b>	Flammable liquid
<b>Hazchem Warning</b>	Aerosol Flammable
<b>IMDG</b>	
<b>UN No.</b>	1950
<b>Shipping Name</b>	ARDROX HF-R_9PR5
<b>ERG No.</b>	126
<b>Class</b>	2
<b>Subsidiary Risk</b>	Flammable liquid
<b>Label</b>	2.1 Aerosol
<b>ICAO/IATA Code</b>	
<b>Class</b>	None
<b>Packing Group:</b>	2
<b>Packaging instructions</b>	N/A
<b>Packaging instructions</b>	Passenger N/A Cargo N/A

<b>15. REGULATORY INFORMATION</b>	
EEC Hazard class: 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)

<b>16. OTHER INFORMATION</b>	
<ul style="list-style-type: none"> <li>- Ensure all national/local regulations are observed.</li> <li>- Ensure users and relevant persons understand the asphyxiation hazard</li> <li>- Regularly check supplier's information sources for updated versions of SDS's</li> </ul>	
<b>Revision Date</b>	30/08/2023 v01
<b>Bibliography</b>	
Perry Chemical Engineering 6 <sup>th</sup> 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	