

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	
Product Synonym	ARDROX HF-R_9PR5 NDT Remover
Chemical Formula	n-Hexane C ₆ H ₁₄
Trade Name	ARDROX HF-R_9PR5
Package	400 ml can
Product Code	W033572
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 to skin
Adverse Health Effects	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.
Chemical Hazards	ARDROX HF-R_9PR5 is Highly Flammable Danger! Extremely flammable liquid and vapour. Vapour may cause flash fire
Biological Hazards	hazardous to the aquatic environment
Vapour Inhalation	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
GHS Classification	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
GHS Pictogram	
GHS Signal Words	Danger
GHS Hazard Statements	H222 Extremely flammable aerosol H304 May be fatal if swallowed and enters airways H315 Causes skin irritation H336 May cause drowsiness or dizziness H361 If Suspected of damaging fertility or the unborn child H373 May cause damage to organs through prolonged or repeated exposure H411 Toxic to aquatic life with long lasting effects H229 Pressurized container: May burst if heated H402 Harmful to aquatic life H371 May cause damage to organs
GHS Precautionary Statements	Prevention: P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking P211: Do not spray on an open flame or other ignition source P251: Do not pierce or burn, even after use P264: Wash skin thoroughly after handling P280: Wear protective gloves/clothing/eye protection/face protection P261: Avoid breathing fumes/gas/mist/ vapours/spray P271: Use only outdoors or in a well-ventilated area P201: Obtain special instructions before use P202: Do not handle until all safety precautions have been read and understood P273: Avoid release to the environment P270: Do not eat, drink or smoke when using this product Response: P301 + P310: IF SWALLOWED: Immediately call a POISON CENTRE/ doctor P331: Do NOT induce vomiting P302 + P352: IF ON SKIN: Wash with plenty water P321: Specific treatment see section 4 first aid treatment P332 + P313: If skin irritation occurs: Get medical advice/attention. P362 + P364: Take off contaminated clothing and wash it before reuse

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	<p>P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P312: Call a POISON CENTRE/doctor if you feel unwell</p> <p>P308 + P313: IF exposed or concerned: Get medical advice/attention</p> <p>P314: Get medical advice/attention if you feel unwell</p> <p>P391: Collect spillage</p> <p>Storage:</p> <p>P410 + P412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C</p> <p>P405: Store locked up</p> <p>P403 + P233: Store in a well-ventilated place. Keep container tightly closed. - if product is volatile so as to generate hazardous atmosphere.</p> <p>Disposal:</p> <p>P501: Dispose of contents and container to hazardous or special waste collection point</p>
Other Hazards that do not result in classification	Aspiration Hazard

	breathing is Effects and difficult, give oxygen. Get medical attention.
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5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	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
Unsuitable extinguishing media:	Do not use water jet.
Specific Hazards	This ARDROX HF-R_9PR5 fluid is extremely flammable. When handling the liquid, rubber gloves and eye protection should be worn
Special fire fighting procedures:	Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.
Special protective equipment for firefighters:	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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions.	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.
Environmental Precautions	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.
Methods and material for containment and cleaning up:	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

7. HANDLING AND STORAGE

Safe Handling	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
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3. COMPOSITION OF INGREDIENTS

Chemical name	n-Hexane
Chemical family	
CAS No	110-54-3
UN No	1208
ERG No	128
EC No	203-777-6
Hazard class	3
Hazchem Warning	F1 Flammable

4. FIRST AID MEASURES

Eye contact	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Get medical attention
Skin Contact	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
Ingestion	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
Inhalation	Very hazardous in case of inhalation. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If

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Conditions for safe storage, including any incompatibilities	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 sources of ignition (spark or flame). Use original container.
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Vapour density 20°C:	3.58g/l
Liquid density	0.66-0.68g/cm ³
Relative density water=1:	0.66-0.68
Solubility(ies)	
Solubility in Water:	Not soluble in water
Partition coefficient (n-octanol/water):	No data
Autoignition Temperature:	225°C
Decomposition Temperature:	No data
Viscosity	
Kinematic viscosity:	0.31 cP
Dynamic viscosity:	No data
Explosive properties:	Not applicable
Oxidising Properties:	Not applicable
Molecular weight	86 g/mol

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational Exposure Hazards (HCS)	OEL eight-hour TWA 100ppm
Engineering Control Measures	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.
Personal Protection	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
Eyes	Safety glasses
Hands	Protective gloves
Body protection:	Overalls
Feet	Safety shoes

10. STABILITY AND REACTIVITY

Reactivity	Not reactive under normal conditions
Chemical stability	Stable under normal conditions
Possibility of hazardous reactions	No data
Conditions to avoid	Open flame and electrical discharge
Incompatible Materials	Strong oxidisers
Hazardous Decomposition of Products	No data

11. TOXOLOGICAL INFORMATION

Acute Toxicity	Very hazardous in case of inhalation.
Skin & eye contact	Irritating to skin seek medical help immediately.
Chronic Toxicity	Very hazardous in case of ingestion
Carcinogenicity	No data
Mutagenicity	No data
Reproductive Hazards	No data

12. ECOLOGICAL INFORMATION

Toxicity	OSHA 100 ppm 8hr weighted ave
Persistence and degradability	No data
Bioaccumulative Potential Product	No data
Mobility in soil	No data
Results of PBT and vPvB assessment	No data
Other adverse effects	No data
Effect on ozone layer	No data

9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical Name	ARDROX HF-R_9PR5
Chemical Symbol	C ₆ H ₁₄
Physical state	Liquid
Form:	Liquid
Colour:	Light, Colourless
Odour:	Petroleum odour
Odour Threshold:	Weighted average: 86.5ppm
pH:	Neutral
Melting Point:	-95°C
Boiling Point:	69°C
Sublimation Point:	No data
Critical Temp. (°C):	No data
Flash Point:	2°C
Evaporation Rate:	6.82
Flammability (solid, gas):	Flammable liquid
Flammability limit - upper (%):	7.5%
Flammability limit - lower(%):	1.1%

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Effect on the global warming (CO2=1)	No data
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Bibliography
Perry Chemical Engineering 6 th 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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13. DISPOSAL CONSIDERATIONS

Disposal Methods	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, without puncturing, via a licensed waste disposal contractor
Disposal of Packaging	As per regulation for aerosol cans.

14. TRANSPORT INFORMATION

Road Transportation	
UN No.	1950
Shipping Name	ARDROX HF-R_9PR5
ERG No.	126
Class	2
Subsidiary Risk	Flammable liquid
Hazchem Warning	Aerosol Flammable
IMDG	
Shipping Name	ARDROX HF-R_9PR5
ERG No.	126
Class	2
Subsidiary Risk	Flammable liquid
Label	2.1 Aerosol
ICAO/IATA Code	
Class	2
Packing Group:	N/A
Packaging instructions	Passenger N/A Cargo N/A

15. REGULATORY INFORMATION

EEC Hazard class: 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