

## MATERIAL SAFETY DATA SHEET ARDROX HF-P

(Please ensure that this MSDS is received by appropriate person) Ref.No: MS138 DATE: January 2018 Protective Version:02 Be sure to use approved / certified an Clothing respirator or equivalent. PRODUCT AND COMPANY IDENTIFICATION Special Fire-Fire fighters should wear positive pressure PRODUCT IDENTIFICATION **Fighting** self-contained breathing apparatus (SCBA) ARDROX HF-P Product Name **Procedures** and full turnout gear. Formulated chemical Chemical Formula Specific Hazards AEROSOLS: In a fire, beware of exploding Company Identification AFROX Malawi limited aerosols cans. Container explosion may occur Johnstone Road under fire conditions or when heated. Ginnery Corner Vigorously supports combustion. The vapour is Blantyre heavier than air and may spread over a wide Tel. No: +265(1)871 611 area leading to the risk of remote ignition and Fax No: +265(1) 871 260 flashback. The aerosol package comprises the EMERGENCY NO .: +265 871 611 (24 Hours) product and a non-flammable propellant in a HAZARDS IDENTIFICATION pressurised container. Chemical Hazards N/A Hazardous Carbon oxides (CO, CO2) nitrogen oxides **Skin Contact** Irritant Thermal De-(NO, NO2). Ingestion Composition Products. 3 COMPOSITION / INFORMATION ON **INGREDIENTS** ACCIDENTAL RELEASE MEASURES Chemical Name (1) Hydrocarbon Personal Splash goggles. Overalls. Boots. Gloves. Chemical Family precautions 8032-32-4 CAS No. **Environmental** Eliminate all ignition sources. Contain the Concentration (%) 45-60 precautions spillage to prevent entry into drains or 232-453-7 EC No. waterways. Classification Carc. Cat. 1; R45 Absorb with DRY earth, sand or other non-Spillages Xn; R65 combustible material. Finish cleaning by spreading water on the contaminated surface Chemical Name (2) Dearomatized hydrocarbon and dispose of according to local and regional Chemical Family authority requirements. Notify the local CAS No. 8008-20-6 authority if a spillage of large quantity into Concentration (%) 25-35 drains or waterways occurs. EC No. 232-366-4 Classification R10 HANDLING AND STORAGE Xn; R20 Handling Keep locked up Keep away from heat. Xi; R36/R38 Ground all away from source of ignition. UN No. equipment containing material. Do not ingest. ERG No. 126 Do not breathe gas / fumes /vapour / spray. In Hazchem Warning case of insufficient ventilation, wear suitable If ingested, seem respiratory equipment. 4 FIRST AID MEASURES medical advice immediately and show the **Eye Contact** Check for and remove any contact lenses. Do container or the label. Avoid contact with skin not use an eye ointment. Seek medical and eyes. Keep away from incompatibles such attention. Flush with plenty of water for at least as oxidizing agents, acids. 15 minutes, occasionally lifting the upper and Keep in a cool, well-ventilated place. Storage lower evelids. product should be stored away from oxidizing **Skin Contact** Wash with soap and water. Get medical agents and foodstuffs. Keep in the original attention if irritation develops. container in an upright position. Use original Ingestion Do not induce vomiting. Loosen tight clothing container. such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-EXPOSURE CONTROLS/PERSONAL PROTECTION mouth resuscitation. Seek immediate medical Occupational Ingredient name: Ardrox HF-P: attention. Have conscious person drink several Exposure ACGIH T LV (United States 2003). Notes: glasses of water. Weight averaged theoretically calculated. Inhalation Allow the victim to rest in a well-ventilated TWA:  $200 \text{mg/m}^3$  8 hour(s). area. Seek immediate medical attention. If the Personal Wash hands, forearms, and face thoroughly victim is not breathing, perform mouth-to Protection after handling compounds and before eating, mouth resuscitation. smoking, using toilet, and at end of the day. Effects and Good general ventilation should be **Engineering** Symptoms: Control sufficient. Inhalation Hazardous in case of inhalation. measures **Ingestion** Hazardous in case of ingestion. Hazards Skin Contact Hazardous in case of skin contact (irritant, permeator). Respiratory Vapour respirator. Be sure to use an Skin inflammation is characterized by itching, approved/certified respirator or equivalent. scaling, reddening, or, occasionally, blistering. Wear appropriate respirator when ventilation is inadequate. Aggravating Repeated skin exposure can produce local Skin & Body Overalls conditions skin destruction, or dermatitis. Hands Gloves

Safety glasses

PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DATA

## FIRE FIGHTING MEASURES

Extinguishing

SMALL FIRE: Use DRY chemical powder. media

LARGE FIRE: Do not use water jet. Use DRY chemical powder, CO2, water spray or foam.

**Emergency Actions** 



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 $0.85 \text{ to } 0.87 \text{g/cm}^3$ Density

Vapour Density >1.0

Colour Clear dark red

Odour Characteristic solvent odour

Odour Threshold >1 ppm Physical state Dark red liquid **Boiling Point** 100°C Melting Point <-10°C

Solubility Miscible with hydrocarbons and halogenated hydrocarbons. Insoluble in cold water, hot

water.

Octanol / water The product is more soluble

partition coefficient

pН Not applicable

Flash point >55°C

Fire Hazards in Highly flammable in presence of open Presence of flames and sparks. Flammable in presence of various Substances heat, of oxidizing materials, of combustible materials. Slightly flammable to flammable in

presence of reducing materials.

Auto-ignition The lowest known value is 229°C (444.2°F)

(Kerosene). temperature Explosive Not applicable.

properties

Lower explosion LEL = 0.6%. UEL = 7.0%.

Limit

10 STABILITY AND REACTIVITY

Stability The product is stable. Conditions to avoid No additional remark.

Incompatible Reactive with oxidizing agents,

Materials alkalis.

Hazardous Carbon oxides (CO, CO2) nitrogen oxides

**Decomposition** (NO, NO2).

**Products** 

11 TOXICOLOGICAL INFORMATION

Acute Toxicity Acute oral toxicity (LD50): >2400mg/kg (Rat -

Weighted average theoretically calculated). Acute dermal toxicity (LD50): >2000mg/kg (Rat). (KEROSENE, dearomatized). toxicity of the vapour (LC50): 5000mg/m<sup>3</sup> 4 hours (Rat). (KEROSENE, dearomatized).

Skin Hazardous in case of skin contact (irritant). Chronic Toxicity Repeated skin exposure can produce local skin

destruction, or dermatitis.

Classified 2A (Probable for human) by IARC Carcinogenicity

(Kerosene).

Mutagenicity Reproductive Hazards

Teratogenic

12 ECOLOGICAL INFORMATION

Expected to be slowly bio-degradable. Persistence / Possibly hazardous short-term degradation Degradability

> products are not likely. Products of biodegradation: Oxidises rapidly by photochemical

reactions in air.

**Ecotoxicity** Harmful to aquatic life in high concentrations.

13 DISPOSAL CONSIDERATIONS

Disposal Methods Prevent entry into waterways, sewers and

confined areas: dike if necessary. Product must be removed by a reputable waste disposal company. Aerosol cans (used or unused) should be disposed of, without puncturing, via a

licensed waste disposal contractor.

DO NOT RE-USE CONTAINERS. Puncture Disposal of packaging all plastic containers. Flatten

containers. Shred all polywoven bags.

Hazardous The classification of the product may meet the criteria for a hazardous waste. Waste

14 TRANSPORT INFORMATION

ROAD TRANSPORTATION

UN No. 1993 - Liquid. 1950 - Aerosols.

ERG No

Hazchem warning

ADR/RID Class Flammable liquid with a flash point

21°C (70°F) and 100°C

(212°F).

Packaging Group 11

Flammable

FLAMMABLE LIQUIDS, N.O.S. Proper Shipping Name

(Petroleum ether, KEROSENE,

dearomatized) SEA TRANSPORTATION

UN No. 1993 - Liquid. 1950 - Aerosols.

**IMDG** 3 Class Packaging group 11

Flammable Label

Proper Shipping Name FLAMMABLE LIQUIDS, N.O.S.

(Petroleum ether, KEROSENE,

dearomatized)

AIR TRANSPORTATION

UN No. 1993 - Liquid. 1950 - Aerosols. ICAO/IATA Code

Class

3: Flammable Liquid

Packaging group

Label Flammable

FLAMMABLE LIQUIDS, N.O.S. Proper shipping Name

(Petroleum ether, KEROSENE,

dearomatized)

15 REGULATORY INFORMATION

EEC Hazard class Irritant

National legislation OHSact and Regulations 85 of 1993.

Reference SANS 10234 and its supplement.

16 OTHER INFORMATION

Other Special Considerations: No known data.

**EXCLUSION OF LIABILITY** 

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