MATERIAL SAFETY DATA SHEET (MSDS)

AFROX SPATTER RELEASE NON- SILICONE-AEROSOL
(Please ensure that this MSDS is received by the appropriate person)

Date: January 2018 Version: 02 Ref.No:MS136

1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFICATION

Product Name	**SPRAFROX**
Chemical Formula	O_2
Trade Names	**AFROX SPATTER RELEASE NON-SILICONE - AEROSOL**
Company Identification	AFROX Malawi Limited Johnstone Road Ginnery Corner Blantyre Tel No.: +265(1)871 611 Fax No.: +265 (1)
Emergency No.	**+265(1)871 611 (24 hrs)**

2 HAZARDS IDENTIFICATION

Main Hazards: Extremely flammable. Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C. In use, may form flammable/explosive vapour-air mixture.

Adverse Health Effects

Chemical Hazards

Biological Hazards

Inhalation Exposure to the gas may have the following effects: dizziness, drowsiness, loss of consciousness. Acts as a simple asphyxiant; concentrations in excess of 14% may cause symptoms of oxygen deficiency, leading to loss of consciousness if exposure continues.

Eye Contact Liquid or cold vapour may cause frostbite and corneal damage.

Skin Contact Liquid or cold vapour may cause frostbite.

Ingestion Aspiration during swallowing or vomiting may severely damage the lungs.

3 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Propellant: Concentrat
Chemical Family	Aerosol: R
CAS No.	
UN No.	
ERG No.	
Hazchem Warning	

FIRST AID MEASURES

An asphyxiant gas propellant.

Eye Contact Immediately flood the eye with plenty of water for at least 10 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.

Skin Contact Wash skin with soap and water.

Ingestion Wash out mouth with water. If any material enters the lungs, for example during swallowing or vomiting, obtain medical attention urgently.

Inhalation Remove from exposure. Keep warm and at rest. If there is difficulty in breathing, give oxygen. If breathing stops or shows signs of failing, give artificial respiration. Obtain medical attention.

Physicians Treat symptomatically. Treat hypoxia with oxygen and ventilation as appropriate.

FIRE FIGHTING MEASURES

Extinguishing media Use foam, dry chemical or carbon dioxide. Keep containers and surroundings cool with water spray. **Do not use water jet.**

Specific Hazards Containers may explode in heat of fire. May form explosive mixtures with air.

Emergency Actions

Protective Clothing Wear full protective clothing and self-contained breathing apparatus.

Environmental Precautions

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions Eliminate all sources of ignition. Beware of gas accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental Precautions Try to prevent the material from entering drains or water courses.

Spillages Transfer into suitable containers for recovery or disposal. Remove leaking containers to a safe place. Beware of gas accumulating to form explosive concentrations.

7 HANDLING AND STORAGE

Handling Use in well ventilated area.

Storage Storage area should be: cool, dry, out of direct sunlight. Store away from sources of heat or ignition. Storage temperature should be kept below 50°C. Sealed containers may rupture explosively if exposed to heat.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Propellant: Propane / Butane
UK EH40: OES 600ppm (1450mg/m^3) 8h TWA UK EH40: OES 750ppm (1810mg/m^3) 15h TWA FRG: MAK 1000ppm (2350mg/m^3) 8h TWA
Peak limitation category IV
ACGIH TLV 800ppm (1900mg/m^3) 8h TWA

Hazards

Engineering Control Measures Exposure to this material may be controlled in a number of ways. The measures appropriate for a particular worksite depend on how the material is used and on the potential for exposure.

Personal Protection During application, adequate ventilation must be provided.

Eyes Chemical goggles if there is a risk of splashing.

Skin / Body Wear overall or apron.

Respiratory Respiratory protection if there is risk of uncontrolled exposure to aerosols.

9 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DATA

Chemical Symbol	
Molecular Weight	
Specific Volume	
Density (kg/m^3)	920
Relative density	
Colour	Amber
Taste	
Odour	Hydrocarbon
Physical State	Liquid
PH	7 Neutral
Boiling Range/Point (0°C)	Residual liquid: Boils above 250
Flash Point (PMCC) (0°C)	<-18
Explosion Limits (%)	>1.8 to <10
Solubility in Water ((kg/m^3)	Immiscible
Vapour Pressure (kPa)	560 at 25°C
Flammability	Classified as"Highly Flammable" in the EEC. See Methods A10, A12 and A13 of 84/449/EEC.
Auto-flammability (deg C)	370
Viscosity (cSt)	45 at 25°C

10 STABILITY AND REACTIVITY

Stability Stable under normal conditions.

Conditions to avoid Temperatures in excess of 50°C. Exposure to direct sunlight.

Incompatible Materials Strong oxidising agents.

Hazardous Decomposition Combustion will generate: oxides of carbon

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Products

11 TOXICOLOGICAL INFORMATION

Acute Toxicity	This chemical occurs naturally and widely in nature.
Skin	None
Eyes	Data for a closely related material suggest that this product is unlikely to cause irritation of the eye.
Chronic Toxicity	No known effect.
Carcinogenicity	No known effect.
Mutagenicity	
Reproductive Hazards	

12 ECOLOGICAL INFORMATION

Mobility	The product is poorly absorbed onto soils or sediments. If released to water the product will float.
Persistence/ Degradability	The product is readily biodegradable.
Bio-accumulation	Product is not expected to bio-accumulate.
Ecotoxicity	The product is rated as non-hazardous to aquatic species.

13 DISPOSAL CONSIDERATIONS

Disposal Methods	Remove leaking container to a safe place. Do not incinerate closed containers. Dispose of in accordance with all applicable local and national regulations.
Disposal of Packaging	Do not cut, puncture or weld on or near to the container. Do not incinerate closed containers.

14 TRANSPORT INFORMATION

ROAD TRANSPORTATION

UN No.	1950
UN Shipping Name	Hydrocarbon gas, liquefied,, n.o.s. or Hydrocarbon gas mixtures, liquefied, n.o.s.
UN Class	2.1
ADR/RID/Land – Substance Identification No.	1950
ADR/RID/Land – Bill of Freight	Aerosols
ADR/RID/Land – Class 2	
ADR/RID/Land – Item No.	5F
ERG No	126
Hazchem warning	

SEA TRANSPORTATION

IMDG	
Class	
Packaging group	
Label	
IMDG Proper Shipping Name	Aerosols
IMDG Class	2.1
IMDG Ems Number	2-13
IMDG MFAG Table Number	620

AIR TRANSPORTATION

ICAO/IATA Code	
IATA Class	2.1
Packaging group	N/A
Packaging instructions	
- Cargo	
- Passenger	
Maximum quantity allowed	
- Cargo	
- Passenger	
IATA Proper Shipping Name	Aerosol, flammable, n.o.s. (less than 1 litre capacity).

15 REGULATORY INFORMATION

EEC Hazard class Extremely flammable

National legislation: OHSact and Regulations 85 of 1993.
Reference: SANS 10234 and its supplement.

16 OTHER INFORMATION

MSDS First Issued 27 August 2000
Purpose of Use As per Product Data Sheet

EXCLUSION OF LIABILITY

Information contained in this publication is accurate at the date of publication. The company does not accept liability arising from the use of this information, or the use, application, adaptation or process of any products described herein.