

SAFETY DATA SHEET (SDS)

AFROX Passivating paste

Review Date: 28/09/2022 v01

Emergency: 0860 02 02 02

Document Number: AFX-SDS-0077

1. PRODUCT AND COMPANY IDENTIFICATION

Product Synonym	AFROX Passivating paste
Chemical Formula	Formula A blend of Mixed glycerides and water with light duty solvents
Trade Name	AFROX Passivating paste
Package	1 Litre Container
Product Code	W053574
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	860 02 02 (Afrox)

2. HAZARD IDENTIFICATION

Classification	<ul style="list-style-type: none"> - Classification under South African Hazardous Chemical Substances Regulations subsequently amended. (HCS) - Classification under the Globally Harmonized System of classification and labelling of chemicals (GHS) - SAPMA Health: 1-Serious Major injury likely unless prompt action taken and treatment given.
Emergency Overview	Colour: None Odour: None Taste: None Physical State: Liquid
Main Hazards	- None
Adverse Health Effects	- None
Chemical Hazards	- Non-reactive and non-toxic.
Biological Hazards	- None
Vapour Inhalation	- Corrosive
GHS Classification	- None
GHS Pictogram	
GHS Signal Words	None
GHS Hazard Statements	- None
GHS Precautionary Statements	- None
Other Hazards that do not result in classification	- None

3. COMPOSITION OF INGREDIENTS

Chemical name	Nitric acid
Chemical family	Acid Passivating Compound
CAS No	7697-37-2
UN No	3264
ERG No	154
Hazard class	2.2
Hazchem Warning	Corrosive Acid liquid
Content (Class)	20-30%
Health Risk	C R35
Kemler	80
Hazchem Rating	SAPMA 1-H-F

4. FIRST AID MEASURES

Eye contact	- Corrosive. Damage possible ACT FAST – Rinse immediately with plenty of water and refer to doctor immediately.
Skin Contact	- Wash for 15 minutes seeks medical help. - HIGHLY CORROSIVE - CAUSES SEVERE BURNS Drench with plenty of water. Remove contaminated clothing. Use skin clear. In severe cases refer to doctor immediately.
Ingestion	- Corrosive Wash mouth with plenty of water. DO NOT induce vomiting. Refer to doctor immediately. - Seek medical advice
Inhalation	Move to fresh air, in case of discomfort seek medical attention. - Seek medical help

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Strong oxidising agent. STRONG OXIDISER Foam CO2. Dry Powder. Fog to cool and control. DO NOT use water jets.
Unsuitable extinguishing media:	- None
Specific Hazards	- This Passivating fluid has no particularly hazardous properties. When handling the concentrate, rubber gloves, an apron and eye protection should be worn DO NOT open containers in storage area.
Special fire fighting procedures:	None required. This product is non-flammable. Remove containers from the vicinity of the fire. Keep containers cool that cannot be removed.
Special protective equipment for firefighters:	Eye protection and protective gloves should be worn when handling the product for lengthy periods of time.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and	Eye protection and protective gloves should be worn when handling the product for lengthy periods of time.
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emergency procedures:	
Environmental Precautions	- Keep out of stormwater drains.
Methods and material for containment and cleaning up:	Contain and neutralise with diluted alkali before flushing to sewer/effluent

7. HANDLING AND STORAGE

Safe Handling	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.
Conditions for safe storage, including any incompatibilities	Exposure to excessive heat for prolonged periods Ensure good stock rotation practices. STORE AWAY FROM ORGANIC PIGMENTS AND CHEMICALS

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational Exposure Hazards (HCS)	- None
OEL	TWA
SAPMA Rating	1-H-F
Engineering Control Measures	None
Personal Protection	Eye protection and protective gloves should be worn when handling the product for lengthy periods of time
Eyes	Safety glasses
Hands	Protective gloves
Body protection	None
Feet	- None

9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical Name	Passivating paste
Chemical Symbol	HNO ₃ <30%
Physical state	Liquid
Form:	Liquid
Colour:	Amber viscous liquid
Odour:	Pungent odour
Odour Threshold:	None
pH:	<2
Melting Point:	No data
Boiling Point:	No data
Sublimation Point:	No data
Critical Temp. (°C):	No data
Flash Point:	No data
Evaporation Rate:	No data

Flammability (solid, gas):	Not flammable
Flammability limit - upper (%):	Not flammable
Flammability limit - lower(%):	Not flammable
Vapour pressure:	No data
Vapour density (air=1)	No data
Relative density:	1.00
Solubility(ies)	
Solubility in Water:	Soluble in water
Partition coefficient (n-octanol/water):	No data
Autoignition Temperature:	No data
Decomposition Temperature:	No data
Viscosity	
Kinematic viscosity:	No data
Dynamic viscosity:	No data
Explosive properties:	Not applicable
Oxidising Properties:	Not applicable
Molecular weight	No data

10. STABILITY AND REACTIVITY

Reactivity	- No data
Chemical stability	- Stable if stored under normal conditions
Possibility of hazardous reactions	- No data
Conditions to avoid	- No data
Incompatible Materials	No data
Hazardous Decomposition of Products	- No data

11. TOXOLOGICAL INFORMATION

Acute Toxicity	No data
Skin & eye contact	No data
Chronic Toxicity	No data
Carcinogenicity	No data
Mutagenicity	No data
Reproductive Hazards	No data

12. ECOLOGICAL INFORMATION

Toxicity	Nontoxic
Persistence and degradability	No data
Bioaccumulative Potential	No data
Product	
Mobility in soil	No data
Results of PBT and vPvB assessment	No data
Other adverse effects	No data
Effect on ozone layer	No data
Effect on the global warming (CO₂=1)	No data

13. DISPOSAL CONSIDERATIONS

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Disposal Methods	- Large amounts should be returned to the supplier for disposal. - Highly Hazardous. Consult responsible waste disposal authority, e.g. Enviroserve.
Disposal of Packaging	- As per regulation for plastic material

14. TRANSPORT INFORMATION

Road Transportation

UN No.	3264
Shipping Name	Passivating paste
ERG No.	154
Class	2.2
Subsidiary Risk	Corrosive toxic
Hazchem Warning	Not classified
IMO Class	8
EA Code	154
Kemler	80

IMDG	3264
Shipping Name	Passivating paste
ERG No.	154
Class	2.2
Subsidiary Risk	Corrosive toxic
Label	Corrosive toxic

ICAO/IATA Code	3264
Class	2.2
Packing Group:	
Packaging instructions	- Passenger 75 kg - Cargo 150 kg

15. REGULATORY INFORMATION

EEC Hazard class: National legislation OHS Act 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
ALERT WORKERS TO THIS HAZARD POTENTIAL AND ENSURE PRECAUTIONS ARE TAKEN.
IN CASE OF ANY DISCOMFORT, ALWAYS SEEK MEDICAL ADVICE.
DATA SOURCE: OEL – Derived from OHS Act Regulations for

Dangerous Chemical Substances dated 25 August 1995 (EH-42).
SAPMA-South African Paint Manufacturers Association Guide to Health Hazards (SABS ARP006: 1991)

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Bibliography

Compressed Gas Association, Arlington, Virginia
Handbook of Compressed Gases - 3rd 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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