

MATERIAL SAFETY DATA SHEET (MSDS) AFROX PASSIVATING PASTE

(Please ensure that this MSDS is received by the appropriate person)

DATE NO.: January 2018

Version 2

Ref No.:M080

1 PRODUCT AND COMPANY IDENTIFICATION

Product identification
Product name Afrox passivating paste
Package 1-liter container
Application pickling of stainless steels
chemical formula HNO₃
Trade name Afrox passivating paste
Colour coding not available
Valves not available
Company identification AFROX Malawi
Johnstone Road
Ginnery Corner
Blantyre
Tel: +265(1)871 611
Fax: +265(1)871 260
Emergency phone number +265(1)871 611 (24 hours)

2 COMPOSITION /INFORMATION ON INGREDIENTS

Chemical Name Nitric acid
Chemical family acid passivating compound
Ingredient name Nitric acid (no other hazardous substances present)
CAS No. 7697-37-2
Content (class) 20-30%
Health risk C R35
UN No 2031
ERG No 154
Kemler 80
Hazchem code 2(X)
Hazard rating SAPMA 1-H-F
Hazchem warning not available

3 HAZARDS IDENTIFICATION

Main hazards. unknown.
Adverse health effects unknown
Sapma health rate 1-serious major injury likely unless prompt action taken and treatment given.
Chemical hazards unknown
Biological hazards unknown
Vopour inhalation corrosive
Eye contact corrosive, damage possible.
Skin contact extremely corrosive-contact with skin may cause severe skin burn
Ingestion corrosive

4 FIRST AID MEASURES

Eye contact act fast, rinse immediately with plenty of water and seek medical attention.
Skin contact drench with plenty of water. Remove contaminated clothing. Use skin clear. In severe cases refer to doctor immediately.
Ingestion wash mouth with plenty of water. Do not induce vomiting. Refer to doctor immediately.

Inhalation

move to fresh air area and breath fresh air, if discomfort persist seek medical attention

5 FIRE FIGHTING MEASURES

Extinguishing media Afrox passivating paste is a strong oxidizing agent. Strong oxidizer foam CO₂, dry powder, fog spray to cool control the fire involve. Do not use water jets
Specific hazards do not open containers n a storage area.
Emergency actions CONTACT THE NEAREST AFROX BRANCH.
Protective clothing Self-contained breathing apparatus, safety gloves and shoes/boots should be worn when handling containers.

Environmental precaution

unknown

6 ACCIDENTAL RELEASE MEASURES

Personal precautions Afrox passivating paste is very corrosive never use bare hand to touch.
Environmental precautions keep out of storm water drain.
spillages contain and neutralize with diluted alkaline before flushing to sewer/affluent.

7 HANDLING AND STORAGE

Acid-corrosive. Exercise care in the choice of storage area. keep out of contact with metals and reactive substances. Store only in original containers. Ensure good housekeeping. STORE AWAY FROM ORGANIC PIGMENTS AND CHEMICALS.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure hazards unknown effect.
Engineering control measures not available
OEL TWA
SAPMA rating 1-H-F
Inhalation vapours hazardous. Special inorganic respirator should worn when working with Afrox passivating paste
Personal protection respirator, impervious clothing and suitable eye proection should be worn when deal with the chemical avoid direct contact, use impervious gloves,apron and boots when working with passivating paste.
skin use face shield and goggles or full face respirator/hood. Avoid direct contact.
Eyes Observe the rules of hygiene. Wash before eating, drinking and smoking
ingestion APPROPRIATE HAND PROTECTION AND PROTECTIVE CLOTHING MUST ALWAYS BE USED

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9 PHYSICAL AND CHEMICAL PROPERTIES

Physical data

Chemical symbol	HNO ₃
Molecular weight	63 g/mol
Specific volume@20 ⁰ C&101,325pka	not available
Chemical class	passivating compound
Appearance	amber viscous liquid
Density	1.1
PH	greater than 2
Solubility-water	soluble
Odour	pungent

10 STABILITY AND REACTIVITY

Stability	stable if stored under normal condition
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13 ECOLOGICAL CONSIDERATIONS

Disposal methods

14 TRANSPORT INFORMATION

Road transportation

UN No.	2031
IMO class	8
EA code	154
Hazchem code	2(x)
Kemler	80
Packing group	11
ERG NO	154
Hazchem warning	

SEA TRANSPORTATION

IMDG

Packaging group label

AIR TRANSPORTATION

ICA/IATA code

Class

Subsidiary risk

Packaging group

Packaging instructions

-cargo

-passenger

Maximum quantity allowed

-cargo

-passenger

15 REGULATORY INFORMATION

16 OTHER INFORMATION

Bibliography

Compressed gas association, Arlington, Virginia handbook of compressed gases-3rd edition Matheson. Matheson gas data book-6 th edition SABS 0265-labeling of dangerous substances

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