

SAFETY DATA SHEET

METIC



1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name : **METIC**

Company Identification : NanoWorks

Address : 316 Swartkop Eiland, Olyvenhoutsdrif Settlement
Upington, South Africa, 8809

Telephone : +27 73 778 3258

Type of Product : Low Hazardous Industrial De-Scaler

Use : Industrial

2. COMPOSITION/INFORMATION ON INGREDIENTS

| Component | CAS Number | Percentage | |
|---------------------|------------|------------|--|
| Organic Acid Salt | | 30 – 60% | |
| Nonionic Surfactant | | 1 – 10% | |

Also contains other ingredients including surfactants and dyes.

3. HAZARDS IDENTIFICATION

Main Hazard : Corrosive

Flammability : None

Chemical hazard : Reacts with alkalines

Biological hazard : None

Reproductive hazard : None

Health effects – eyes : Corrosive, could cause tissue damage

Health effects – skin : Irritant, could corrode over prolonged contact

Health effects – ingestion : Discomfort

Health effects – inhalation : Mist can be corrosive if breathed in

Carcinogenicity : None

Mutagenicity : None

Neurotoxicity : None

4. FIRST AID MEASURES

| | | |
|--------------|---|--|
| Skin contact | : | Wash skin with soap and water. Seek medical advice if irritation develops. |
| Eye contact | : | Rinse immediately with copious water for 15 minutes, lifting lids occasionally. Seek medical attention immediately. |
| Ingestion | : | Do not induce vomiting. Rinse mouth out with water. Give plenty of water to drink. Seek medical attention. |
| Inhalation | : | Remove victim to well ventilated area. Seek medical advice if discomfort persists. |

5. FIRE-FIGHTING MEASURES

| | | |
|------------------------------|---|--|
| Suitable extinguishing media | : | Water, Foam, Powder, Carbon Dioxide |
| Protection against fire | : | Wear proper protective equipment. Do not enter area without proper protective equipment, including respiratory protection. |
| Special procedures | : | Exercise caution when fighting any chemical fire. |

6. ACCIDENTAL RELEASE MEASURES

| | | |
|---------------------------|---|---|
| Personal precautions | : | Equip clean-up crew with correct safety equipment |
| Environmental precautions | : | Contain liquid and prevent run-off into sewers and drain water. |
| Clean up methods | : | Clean up using absorbent spill kit materials. Transfer into sealed disposable containers. |

7. HANDLING AND STORAGE

| | | |
|---------------------|---|---|
| Storage | : | Store in dry, well ventilated area and out of direct sunlight. Keep container closed when not in use. |
| Handling | : | Ensure personnel protective equipment is worn when handling this product. Do not carry open containers. |
| Personal Protection | : | Overalls, rubber gloves and goggles. |
| Incompatibles | : | Alkalis |
| Packaging | : | Keep in original container |

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| | | |
|-----------------|---|---|
| Hand protection | : | Wear suitable gloves |
| Skin protection | : | Wear long sleeves, clothes that cover well. |
| Eye protection | : | Safety glasses /goggles |

Ingestion : When using, do not eat, drink or smoke

Industrial Hygiene : Provide local exhaust or general room ventilation to minimise vapour concentrations.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state at 20° C : Liquid

Colour : red

Solubility in water : Fully miscible

pH : 1.0 – 1.5 (neat)

Specific Gravity : 1.20 +-0.10

Flash point : None

Boiling Point : Approx. 90°C

Explosive Properties : None, not an explosion hazard

10. STABILITY AND REACTIVITY

Hazardous reactions : None under normal conditions

Hazardous properties : Corrosive

Incompatible materials : Strong Alkalis

11. TOXOLOGICAL INFORMATION

Acute

Eyes : Irritation

Skin : May cause irritation

Ingestion : May cause irritation to mouth, throat and stomach

Inhalation : Unlikely to occur under normal conditions of use

Chronic : Possible tissue damage over prolonged exposure

12. ECOLOGICAL INFORMATION

Bio-degradable

The organic materials in this product are expected to deionise into naturally occurring compounds. The organic materials are regarded as readily biodegradable.

The product can alter the pH of any system that it enters. The degree of change depends on the magnitude of the spill and on the prevailing conditions in the receiving system.

13. DISPOSAL CONSIDERATIONS

General : Avoid release to the environment. Comply with local regulations for disposal.
Dispose of this material and its container at hazardous or special waste collection point.

14. TRANSPORT INFORMATION

UN No : 1760
Transport Class : 8
Packaging Group : III
IMDG – Marine pollution : No

15. REGULATORY INFORMATION

Symbol(s) : None
R Phrase(s) : R36/37/38
S Phrase(s) : S1/2, S24/25, S26, S45

16. OTHER INFORMATION

A low hazard, low corrosive acid cleaner that is safer to use than conventional acid cleaners.

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