

Safety Data Sheet

according to Regulation (EU) No. 1907/2006

Nanoprotech ELECTRIC

Print date: 19.04.2011

Product code:

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1. Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation

Nanoprotech ELECTRIC

Use of the substance/preparation

Moisture protection for metallic, electric and electronic workpieces, equipments, machines and systems.

Company/undertaking identification

Distributor

Company name: Nano South Africa
Address: Unit 34B, Platinum Junction, School Street,
Milnerton, Cape Town, South Africa,
7441
Contact number: +27 21 552 9855 / +27 82 876 1602

2. Hazards identification

Classification

Indications of danger : Highly flammable, Irritant, Dangerous for the environment
R-phrases:
Highly flammable.
Irritating to skin.
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

Explication of special hazards for human health and environment

The preparation is dangerous in the sense of Directive 1999/45/EC.

3. Composition/information on ingredients

Chemical characterization (Mixture)

Preparation of highly refined mineral oil, anticorrosive additives, antioxidants and aromatic free paraffin and naphthenic hydrocarbons

Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
	64742-49-0	Low boiling point hydrogen treated naphtha, naphtha (petroleum), hydrotreated light	25 - 50 %	F, Xn, Xi, N R11-38-51-53-65-67
201-105-6	78-32-0	m-m-m, m-m-p, m-p-p, p-p-p, tricresyl phosphate, tritoly phosphate	< 2,5 %	Xn, N R21/22-51-53

Full text of each relevant R phrase can be found in heading 16.

Further Information

Full text of R-phrases: see section 16.

4. First aid measures

After inhalation

Provide fresh air. Seek medical attention if problems persist.

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After contact with skin

Subsequently wash again with: Water and soap. Rub in high-fat content cream. In case of skin irritation, seek medical treatment.

After contact with eyes

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

After ingestion

Immediately get medical attention.

5. Fire-fighting measures

Suitable extinguishing media

Carbon dioxide (CO₂). Extinguishing powder. alcohol resistant foam. Extinguishing powder. Atomized water.

Extinguishing media which must not be used for safety reasons

High power water jet.

Special exposure hazards arising from substance or preparation itself, combustion products, resulting gases

Vapours may form explosive mixtures with air. Can be released in case of fire: toxic gas.

Special protective equipment for fire-fighters

Use appropriate respiratory protection.

Additional information

Use water spray/stream to protect personnel and to cool endangered containers. Remove product from area of fire.

6. Accidental release measures

Personal precautions

Remove all sources of ignition. Wear personal protection equipment. Guide people to safety.

Environmental precautions

In case of gas being released or leakage into waters, ground or the drainage system, the appropriate authorities must be informed. Do not empty into drains or the aquatic environment.

Methods for cleaning up/taking up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Collect in closed containers for disposal. Provide adequate ventilation.

7. Handling and storage

Handling

Advice on safe handling

Protect against heat and insolation. Use only in well-ventilated areas. Provide a suction section for room air on ground-level. (Concentrated vapours are heavier than air.) Only use material in places where open light, fire and other sources of ignition can be kept away.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

Storage

Requirements for storage rooms and vessels

Keep in a cool place.

Further information on storage conditions

Heating causes rise in pressure with risk of bursting.

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Keep container tightly closed and in a well-ventilated place.

8. Exposure controls/personal protection

Exposure limit values

Exposure controls

Protective and hygiene measures

Keep away from food, drink and animal feedingstuffs. Take off immediately all contaminated clothing. Wash hands before breaks and at the end of work. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin.

Respiratory protection

Respiratory protection required in case of: insufficient ventilation.

Hand protection

Gloves - oil-resistant.

Tested protective gloves are to be worn: Finger-stall. NBR (Nitrile rubber). Thickness of glove material: 0,4mm / 0,11mm penetration time (maximum wearing period): 480 min. Recommended protective gloves brand: Camatril Velour / Dermatril. Manufacturer: KCL or comparable makes from other companies.

Eye protection

Tightly sealed safety glasses.

Skin protection

Apron.

9. Physical and chemical properties

General information

Physical state: liquid
Colour: light brown
Odour: like: hydrocarbons, aromatic.

Important health, safety and environmental information

Test method

Changes in the physical state

Melting point: not determined
Boiling point: not determined
Flash point: < 20 °C

Explosive properties

The product is not explosive, but explosive vapour/air mixtures may form.

Lower explosion limits: 0,8 Vol%
Upper explosion limits: 7,7 Vol%

Oxidizing properties

The product is not spontaneously flammable.

Water solubility: 0,837 g/cm³
not miscible
Viscosity / kinematic:
(at 20 °C) 30 mm²/s

Solvent content

30 %

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Other information

Ignition temperature: > 250 °C

10. Stability and reactivity

Conditions to avoid

Heating causes rise in pressure with risk of bursting.

11. Toxicological information

Corrosive and irritant effects

After skin contact:

Dissolvent splashes may cause irritant effects on the eye and reversible damages. Irritating to skin.

Sensitising effects

May cause sensitization by skin contact.

Further information

Inhalation of high concentration may cause narcotic effects/intoxication.

12. Ecological information

Ecotoxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Further information

Do not empty undiluted or in bigger amounts into ground water, aquatic environment or drains.

13. Disposal considerations

Waste disposal number of waste from residues/unused products

070104 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals; other organic solvents, washing liquids and mother liquors
Classified as hazardous waste.

Waste disposal number of used product

130205 OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19); waste engine, gear and lubricating oils; mineral-based non-chlorinated engine, gear and lubricating oils
Classified as hazardous waste.

Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by dangerous substances
Classified as hazardous waste.

Contaminated packaging

Disposal considerations: Handle contaminated packaging in the same way as the substance itself. Remove according to the regulations.

14. Transport information

Land transport (ADR/RID)

UN number: 3295

ADR/RID class: 3

Classification code: F1

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Warning plate

Hazard-no.: 33
Hazard label: 3
ADR/RID packing group: II
Limited quantity: LQ4
Tunnel restriction code: D/E

Description of the goods

HYDROCARBONS, LIQUID, N.O.S.

Other applicable information (land transport)

Special provisions: 190 - 327 - 625
E0
Transport category: 2
Special provisions: 640C 649
E2

Inland waterways transport

UN number: 3295
ADNR class:
3
Classification code: F1
Hazard label: 3
Packing group: II
Limited quantity: LQ4

Description of the goods

HYDROCARBONS, LIQUID, N.O.S.

Other applicable information (inland waterways transport)

Special provisions: 640C 649
E2

Marine transport

UN number: 3295
IMDG code: 3
Hazard label: 3
IMDG packing group: II
EmS: F-E, S-D
Limited quantity: 1 L

Description of the goods

HYDROCARBONS, LIQUID, N.O.S.

Other applicable information (marine transport)

Special provisions: -
E2

Air transport

UN/ID number: 3295
ICAO/IATA-DGR: 3
Hazard label: 3
ICAO packing group: II
Limited quantity Passenger: 1 L

IATA-packing instructions - Passenger: 305

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IATA-max. quantity - Passenger:	5 L
IATA-packing instructions - Cargo:	307
IATA-max. quantity - Cargo:	60 L

Description of the goods

HYDROCARBONS, LIQUID, N.O.S.

Other applicable information (air transport)

E0
: Y203
Special provisions: A145 - A153
E2
: Y305
Special provisions: A3 A224

15. Regulatory information

Labelling

Danger symbols: F - Highly flammable; Xi - Irritant; N - Dangerous for the environment

R phrases

Highly flammable.
Irritating to skin.
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

S phrases

Keep container in a well-ventilated place.
Keep away from sources of ignition - No smoking.
Do not breathe vapour .
Take precautionary measures against static discharges.
In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Use appropriate containment to avoid environmental contamination.
This material and its container must be disposed of as hazardous waste.
Wear suitable protective clothing and gloves.

National regulatory information

Water contaminating class (D): 2 - water contaminating

16. Other information

Full text of R-phrases referred to under sections 2 and 3

Highly flammable.
Harmful in contact with skin and if swallowed.
Irritating to skin.
Toxic to aquatic organisms.
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
May cause long-term adverse effects in the aquatic environment.
Harmful: may cause lung damage if swallowed.
Vapours may cause drowsiness and dizziness.
Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The receiver of our product is singular

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responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)