

**Safety Data Sheet**  
according to Regulation (EU) No. 1907/2006

**Nanoprotech Next Generation Gun Lubricant**

Print date: 10.08.2020

Product code: NPNGGL2501

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

**Identification of the substance or preparation**

Nanoprotech Next Generation Gun Lubricant

**Use of the substance/preparation**

Moisture and corrosion protection for metallic surfaces, equipment. Friction and wear protection. Lubricant for all working and mechanical parts.

**Companies/undertaking and identification**

**Distributor**

Company name: Nano South Africa  
Address: Unit 34B, Platinum Junction, School Street  
Milnerton, Western Cape, South Africa,  
7441  
  
Contact Number: + 270215529855  
+ 270828761602  
+ 270844189293

**2. Hazards Identification**

**Classification**

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

**Explanation of special hazards for human health and environment**

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

**3. Composition/information of ingredients**

**Chemical characterization (Mixture)**

Preparation of highly refined mineral oil, anti-corrosive additives, anti-carbon agent, strong nano bonding agents, antioxidants aromatic free paraffin and naphthenic hydrocarbons.

**Hazardous components**

EC-No.	CAS-No.	Chemical name	Quantity	Classification
	6472-52-0	Low boiling point, anti-corrosive agent naphtha (petroleum), hydroheated light, silica.	20-50%	F, Xn, Xi, R11-36-52-53-69-66
201-106-8	79-32-3	m-m-m, m-m-p, m-p-m, p-p-p, tycresyl phosphate, trytolyl phosphate, syl, par.	<1,5%	Xn, N, R22/23-51-55

**4. First aid measures**

**After inhalation**

Provide fresh air. Seek medical attention if problems persist.

**After contact with skin**

Wash with water and soap. Rub in high fat content cream. In case of skin irritation, seek medical attention.

**After contact with eyes**

If product gets into contact with eye, keep eye lid open and rinse with plenty of clean water for at least 5 (five) minutes. Seek medical attention.

**After ingestion**

Immediately seek medical attention.

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### 5. Fire-fighting measures

#### Suitable fire extinguishing media

Carbon dioxide (CO<sub>2</sub>). Extinguishing powder. Alcohol resistant foam. Extinguishing powder. Atomized water. Sand

#### Extinguishing media which must not be used for safety reasons

High power water jet / pressure hose

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

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

#### Special protective equipment for fire-fighters

Use appropriate respiratory protection. In case of fire wear protective clothing.

#### 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 drainage system, the appropriate authorities must be informed.

Do not empty into drains or the aquatic environment.

#### Methods of cleaning up/taking up

Absorb with liquid binding material (e.g. sand, diatomaceous earth, acid- 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 (butane gas aerosols). Provide a suction sector for room air on ground level. (Concentrated vapours are heavier than air.) Only use material in spaces where open light, fire and other sources of ignition can be kept away.

##### Advice on protection against fire and explosion

Keep away from the sources of ignition - No smoking. Take precaution 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.

Keep container closed in well- ventilated place.

#### Exposure limits

#### Exposure controls

##### Protective and hygiene measures

Keep away from food, drink and animal feeding stuffs. Take off immediately all contaminated clothing. Wash hand before breaks and at the end of work. Do not breath gas/fumes/vapours/spray. Avoid contact with skin.

##### Respiratory protection

Respiratory equipment required in case of insufficient ventilation.

##### Hand protection

Gloves - oil-resistant.

Tested protective gloves are to be worn: Finger-stall. NRB (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.

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**9. Physical and chemical properties**

**General information**

Physical state: liquid  
Colour: Green / light brown  
Odour: Purified mineral oil, hydrocarbons, aromatic.

**Important health, safety and environmental information**

**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%

**Oxidising properties**

This product is not spontaneously flammable. 0.837 g/cm<sup>3</sup>

Water solubility: not miscible  
Viscosity / kinematic 30mm<sup>2</sup>/s  
(at 20°C)  
Solvent content 30% (aerosols)

**Other information**

Ignition temperature: > 130 °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 might cause irritant on the eyes 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 effects on 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**

70104 WASTE FROM ORGANICAL PROCESSES; waste from manufacture, formulation, supply and use (MFSU) of organic basic chemicals; other organic solvents, washing liquids, and mother liquors classified as Classified as hazardous waste.

**Waste disposal number of used product**

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

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**Waste disposal of contaminated packaging**

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

**Contaminated packaging**

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

**14. Transport information**

**Land transport (ADR/RID)**

UN Number	3295
ADR/RID class:	3
Classification code:	F1
Warning plate:	
Hazard-no:	33
Hazard label:	3
ADR/RID packaging group:	II
Limited quantity:	LQ4
Tunnel restriction code:	D/E

**Description of goods**

HYDROCARBONS, ANTI-CORROSIVE ADDITIVES,  
LIQUID, N.O.S.

**Other applicable information (land transport)**

Special provisions 190 - 327 - 625  
EQ  
Transport Category: 2  
Special provisions 640C 649  
E2

**Inland waterways transport**

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

**Description of goods**

HYDROCARBONS, ANTI-CORROSIVE ADDITIVES,  
LIQUID, N.O.S.

**Other applicable information (inland waterways transport)**

Special provisions: 640C 649  
E2

**Marine transport**

UN number:	3295
ADNR class:	3
Classification code:	F1
Hazard Label:	3
IMDG packaging group:	II
EmS:	F-E, S-D
Limited quantity:	1L

**Description of goods**

HYDROCARBONS, ANTI-CORROSIVE ADDITIVES,  
LIQUID, N.O.S.

**Other applicable information (marine transport)**

Special provisions: -  
E2

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**Air transport**

UN number:	3295
ADNR class:	3
Hazard Label:	3
ICAO packaging group:	II
Limited quantity:	1L
IATA-packaging instructions - Passenger:	305
IATA-max. quantity - Passenger:	5L
IATA-packaging instructions - Cargo:	307
IATA-max. quantity - Cargo:	60L

**Description of goods**

HYDROCARBONS, ANTI-CORROSIVE ADDITIVES,  
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: X - Irritant, N - Dangerous for the environment

**R phrases**

Irritating to skin.  
Toxic to aquatic organisms, may cause long term effects on the aquatic environment.  
Harmful: possible risk if 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 breath vapour.  
Take precautionary measures against static discharges.  
In case of accident or if you do not feel well, seek medical advice immediately. (show the label where possible)  
Use appropriate containment to avoid possible contamination.  
This material and its containment must be disposed of as hazardous waste.  
Wear suitable clothing and protective gloves.

**National regulatory information**

Water contaminating class (D): 2 - water contaminating

**16. Other information**

**Full sections of R-phrases referred under section 2 and 3**

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 on the aquatic environment.  
May cause long term adverse effects on the aquatic environment.  
Harmful may cause lung damage if swallowed.  
Vapours may cause drowsiness and dizziness,  
Harmful: possible 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 singularly 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)*