

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.

Explication 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 persists.

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 (CO₂). 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/cm³

Water solubility: not miscible
Viscosity / kinematic
(at 20°C) 30mm²/s
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)