

## Nano Engine Super Protection

Revision date: 13.04.2017

Product code: 1900

Page 1 of 9

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Nano Engine Super Protection

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### Use of the substance/mixture

Oil Performance Improver

#### 1.3. Details of the supplier of the safety data sheet

Company name: Bluechem Australia  
Street: Unit 2, 102-110 NORTH VIEW DRIVE  
Place: 3020 SUNSHINE, VICTORIA, AUSTRALIA  
Telephone: (03) 9311 4456      Telefax: (03) 9311 7712  
e-mail: admin@bluechemaustralia.com.au  
Contact person: Neil Cochrane  
Internet: www.bluechemaustralia.com.au

#### 1.4. Emergency telephone number:

Emergency 24 HOUR: Neil Cochrane (03) 9311 4456 or 0498 880 115

#### Further Information

Article Number: 33181

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

CLASSIFIED AS HAZARDOUS CHEMICAL ACCORDING TO SAFE WORK AUSTRALIA AND WHS CRITERIA.  
CLASSIFIED AS DANGEROUS GOODS ACCORDING TO THE ADG CODE.  
POISON SCHEDULE: 5

##### Classification according to WHS

Hazard categories:  
Reproductive toxicity: Lact.  
Aspiration hazard: Asp. Tox. 1  
Hazardous to the aquatic environment: Aquatic Acute 1  
Hazardous to the aquatic environment: Aquatic Chronic 1  
Hazard Statements:  
May be fatal if swallowed and enters airways.  
May cause harm to breast-fed children.  
Very toxic to aquatic life with long lasting effects.

#### 2.2. Label elements

##### Labeling according to WHS

##### Component(s) to be indicated on the label

Aliphatic Hydrocarbons 60 -< 70 %  
Chlorparaffines C14-C28 30 -< 35 %

Signal word:      Danger

##### Pictograms:



health hazard - environment

##### Hazard statements

H304 May be fatal if swallowed and enters airways.



# Safety Data Sheet

According to the Model WHS Regulations and the ADG code

## Nano Engine Super Protection

Revision date: 13.04.2017

Product code: 1900

Page 2 of 9

- H362 May cause harm to breast-fed children.  
H410 Very toxic to aquatic life with long lasting effects.

### Precautionary statements

- P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P201 Obtain special instructions before use.  
P260 Do not breathe vapour/aerosole.  
P263 Avoid contact during pregnancy/while nursing.  
P264 Wash hands thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P273 Avoid release to the environment.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
P331 Do NOT induce vomiting.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
P391 Collect spillage.  
P405 Store locked up.  
P501 Dispose of this material and its container to hazardous or special waste collection point.

### Special labelling of certain mixtures

- AUH066 Repeated exposure may cause skin dryness or cracking.

### 2.3. Other hazards

No information available.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Chemical characterization

- Inhibitors
- Preventing agent
- Mineral oils
- Synthetic agent combinations
- Additives

#### Hazardous components

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	Classification according to WHS criteria			
64742-56-9	Basic mineral oils			60 - < 65 %
	265-159-2		01-2119480132-48	
	Asp. Tox. 1; H304			
85535-85-9	Chlorparaffines C14-C28			30 - < 35 %
	287-477-0		01-2119519269-33	
	Lact., Aquatic Acute 1, Aquatic Chronic 1; H362 H400 H410 AUH066			
64771-72-8	n-paraffine C10 - C13, n-Alkanes, <2% Aromatics			5 - < 10 %
	929-018-5		01-2119475608-26	
	Asp. Tox. 1; H304 AUH066			
84605-29-8	Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts			< 1 %
	283-392-8		01-2119493626-26	
	Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 2; H315 H318 H411			

Full text of H and AUH phrases: see section 16



## Safety Data Sheet

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According to the Model WHS Regulations and the ADG code

### Nano Engine Super Protection

Revision date: 13.04.2017

Product code: 1900

Page 3 of 9

#### Further Information

According to note L to labelling (Australian Hazardous Substances Information System (HSIS)), "Basic mineral oils" is not to be classified as "carcinogenic" ingredient, if it contains less than 3 % DMSO extract as measured by IP 346.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### After contact with skin

Take off immediately all contaminated clothing, including underwear and shoes .  
Subsequently wash off with: Water and soap.  
Seek medical attention if problems persist.

#### After contact with eyes

Remove contact lenses.  
Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart.

#### After ingestion

Rinse mouth thoroughly with water.  
Do NOT induce vomiting.  
Consult physician.

### 4.2. Most important symptoms and effects, both acute and delayed

Frequently or prolonged contact with skin may cause dermal irritation.  
Irritation of eyes: Irritant effect possible.

### 4.3. Indication of any immediate medical attention and special treatment needed

Warning about danger of aspiration.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Extinguishing powder. Sand. Carbon dioxide (CO<sub>2</sub>). Water spray.

#### Unsuitable extinguishing media

High power water jet.

### 5.2. Special hazards arising from the substance or mixture

Formation of decomposition products possible.  
In case of fire and/or explosion do not breathe fumes.

### 5.3. Advice for firefighters

HAZCHEM: .3Z

#### Additional information

Cool endangered container in case of fire.  
Beat down gas/vapours/mist with water spray.  
Contaminated fire-fighting water must be collected separately.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Wear a self-contained breathing apparatus and chemical resistant suit.  
High skid risk because of leaking or spilled product.

### 6.2. Environmental precautions

Do not empty into drains or the aquatic environment.  
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

### 6.3. Methods and material for containment and cleaning up

Prevent spreading of spillages (e.g. by oil barrier).



## Safety Data Sheet

bluechem   
GROUP

According to the Model WHS Regulations and the ADG code

### Nano Engine Super Protection

Revision date: 13.04.2017

Product code: 1900

Page 4 of 9

Absorb with liquid-binding material ( e.g. sand, diatomaceous earth, acid- or universal binding agents).

#### **6.4. Reference to other sections**

Information for safe handling look up chapter 7.

Information for personal protective equipment look up chapter 8.

Information for disposal see section 13.

### **SECTION 7: Handling and storage**

#### **7.1. Precautions for safe handling**

##### **Advice on safe handling**

The substance should only be handled in closed apparatus or systems.

Avoid contact with skin and eyes.

Avoid oil mist

#### **7.2. Conditions for safe storage, including any incompatibilities**

##### **Requirements for storage rooms and vessels**

Keep container tightly closed in a cool, well-ventilated place.

Do not store at temperatures over: 50 °C

##### **Advice on storage compatibility**

Should be stored separately from oxidizing agents.

#### **7.3. Specific end use(s)**

No information available.

### **SECTION 8: Exposure controls/personal protection**

#### **8.1. Control parameters**

##### **Occupational Exposure Limits (OEL) - Australia**

No information available.

#### **8.2. Exposure controls**

##### **Protective and hygiene measures**

Take off immediately all contaminated clothing

Avoid contact with skin and eyes.

Keep away from food, drink and animal feeding stuffs.

When using do not eat, drink or smoke.

Wash hands before breaks and after work.

##### **Eye/face protection**

Wear tightly sealed safety glasses against possible splashes into the eyes. (EN 166)

##### **Hand protection**

Tested protective gloves are to be worn: NBR (Nitrile rubber). FKM (Fluoroelastomer (Viton)). (EN374)

##### **Skin protection**

Wear suitable protective clothing.

##### **Respiratory protection**

In case of accumulation of fumes/aerosols, provide adequate ventilation.

In case of fire: Wear self-contained breathing apparatus.

### **SECTION 9: Physical and chemical properties**

#### **9.1. Information on basic physical and chemical properties**

Physical state: viscous

Colour: brown

Odour: mild

Test method



## Safety Data Sheet

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According to the Model WHS Regulations and the ADG code

### Nano Engine Super Protection

Revision date: 13.04.2017

Product code: 1900

Page 5 of 9

#### Changes in the physical state

Flash point: > 100 °C

Density (at 20 °C): 0.90 - 0.95 g/cm<sup>3</sup>

Water solubility:  
(at 20 °C) insoluble

#### Solubility in other solvents

Organic solvents

Viscosity / kinematic:  
(at 40 °C) 17,2 mm<sup>2</sup>/s

#### 9.2. Other information

No data

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No information available.

#### 10.2. Chemical stability

No decomposition when used as intended.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions are known.

#### 10.4. Conditions to avoid

No decomposition when used as intended.  
Keep at temperature not exceeding 50 °C.

#### 10.5. Incompatible materials

Oxidizing agents. acid, concentrated.

#### 10.6. Hazardous decomposition products

No hazardous decomposition products are known.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

## Nano Engine Super Protection

Revision date: 13.04.2017

Product code: 1900

Page 6 of 9

### Acute toxicity

CAS No	Chemical name			
	Exposure route	Dose	Species	Source
64742-56-9	Basic mineral oils			
	inhalative (4 h) aerosol	LC50 >5 mg/l	Rat	
85535-85-9	Chlorparaffines C14-C28			
	oral	LD50 4000 mg/kg	Rat	
	dermal	LD50 4000 mg/kg	Rat	
	inhalative (1 h) vapour	LC50 48170 mg/l	Rat	
64771-72-8	n-paraffine C10 - C13, n-Alkanes, <2% Aromatics			
	oral	LD50 >2000 mg/kg	Rat	
	dermal	LD50 >2000 mg/kg	Rabbit	
	inhalative (4 h) vapour	LC50 >5000 mg/l	Rat	
84605-29-8	Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts			
	oral	LD50 >2000 mg/kg	Rat	
	dermal	LD50 >3200 mg/kg	Rabbit	

### Irritation and corrosivity

After skin contact: Frequently or prolonged contact with skin may cause dermal irritation.

Irritation of eyes: Irritant effect possible.

### Sensitising effects

no danger of sensitization.

## SECTION 12: Ecological information

### 12.1. Toxicity

CAS No	Chemical name				
	Aquatic toxicity	Dose	[h]   [d]	Species	Source
85535-85-9	Chlorparaffines C14-C28				
	Acute algae toxicity	ErC50 3,2 mg/l	96 h	Algae	
64771-72-8	n-paraffine C10 - C13, n-Alkanes, <2% Aromatics				
	Acute fish toxicity	LC50 >1000 mg/l	96 h	Oncorhynchus mykiss	
	Acute crustacea toxicity	EC50 >1000 mg/l	48 h	Daphnia magna	
84605-29-8	Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts				
	Acute fish toxicity	LC50 1-10 mg/l	96 h	Fish	
	Acute crustacea toxicity	EC50 1-10 mg/l	48 h	Daphnia magna	

### 12.2. Persistence and degradability

No information available.

### 12.3. Bioaccumulative potential

No information available.

### 12.4. Mobility in soil

No information available.

### 12.5. Results of PBT and vPvB assessment

No information available.

### 12.6. Other adverse effects

No information available.

## Nano Engine Super Protection

Revision date: 13.04.2017

Product code: 1900

Page 7 of 9

### Further information

Do not allow to enter into surface water or drains.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Advice on disposal

Do not dispose with household waste.

Do not empty into drains or the aquatic environment.

Arrange about the exact waste code with the local waste disposal expert.

#### Contaminated packaging

Container must be completely emptied.

## SECTION 14: Transport information

### Land transport (ADG)

**14.1. UN number:**

UN 3082

**14.2. UN proper shipping name:**ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
Chlorparaffines C14-C28**14.3. Transport hazard class(es):**

9

**14.4. Packing group:**

III

Hazard label:

9



Special Provisions:

274, 331, 335, 375, AU01

Limited quantity:

5 L

**Other applicable information (land transport)**

HAZCHEM: .3Z

### Marine transport (IMDG)

**14.1. UN number:**

UN 3082

**14.2. UN proper shipping name:**ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
Chlorparaffines C14-C28**14.3. Transport hazard class(es):**

9

**14.4. Packing group:**

III

Hazard label:

9



Marine pollutant:

P

Special Provisions:

274, 335

Limited quantity:

5 L

Excepted quantity:

E1

EmS:

F-A, S-F

### Air transport (ICAO-TI/IATA-DGR)

**14.1. UN number:**

UN 3082

**14.2. UN proper shipping name:**ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
Chlorparaffines C14-C28**14.3. Transport hazard class(es):**

9

## Nano Engine Super Protection

Revision date: 13.04.2017

Product code: 1900

Page 8 of 9

### 14.4. Packing group:

III

Hazard label:

9



Special Provisions:

A97 A158

Limited quantity Passenger:

30 kg G

Passenger LQ:

Y964

Excepted quantity:

E1

IATA-packing instructions - Passenger:

964

IATA-max. quantity - Passenger:

450 L

IATA-packing instructions - Cargo:

964

IATA-max. quantity - Cargo:

450 L

### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes



Danger releasing substance:

Chlorparaffines C14-C28

### 14.6. Special precautions for user

No information available.

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No information available.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 28: Basic mineral oils

#### Additional information

Contains:

&lt; 5 % phosphates

5 - 15 % hydrocarbons, aliphatic.

15 - 30 % hydrocarbons, halogenated.

#### National regulatory information

Water contaminating class (D):

2 - water contaminating

#### Additional information

POISON SCHEDULE: 5

All components of this mixture are listed on or exempted from AICS.

### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

## SECTION 16: Other information

### Abbreviations and acronyms

ADG = Australian Code for the Transport of Dangerous Goods by Road &amp; Rail

IMDG = International Maritime Code for Dangerous Goods

IATA/ICAO = International Air Transport Association / International Civil Aviation Organization

MARPOL = International Convention for the Prevention of Pollution from Ships

IBC-Code = International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in





## Safety Data Sheet

bluechem   
GROUP

According to the Model WHS Regulations and the ADG code

### Nano Engine Super Protection

Revision date: 13.04.2017

Product code: 1900

Page 9 of 9

Bulk  
HAZCHEM = HAZardous CHEMicals

WHS = Work Health and Safety  
NOHSC = National Occupational Health and Safety Commission (Australia)  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
REACH = Registration, Evaluation, Authorization and Restriction of Chemicals  
CAS = Chemical Abstract Service  
EN = European norm  
ISO = International Organization for Standardization  
DIN = Deutsche Industrie Norm  
PBT = Persistent Bioaccumulative and Toxic  
vPvB = Very Persistent and very Bio-accumulative

LD = Lethal dose  
LC = Lethal concentration  
EC = Effect concentration  
IC = Median immobilisation concentration or median inhibitory concentration

#### Relevant H and AUH phrases (number and full text)

H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H362 May cause harm to breast-fed children.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H411 Toxic to aquatic life with long lasting effects.  
AUH066 Repeated exposure may cause skin dryness or cracking.

#### 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.

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