



**CleanTEC Nano Engine Protect & Seal**

Revision date: 20.05.2019

Product code: 2209

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

**1.1. Product identifier**

CleanTEC Nano Engine Protect & Seal

**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: cms CleanTEC GmbH  
Street: Geretsrieder Str. 33  
Place: D-84478 Waldkraiburg  
Telephone: +49 (0)8638 8684160  
Internet: www.cleantec-chemie.de

Telefax: +49 (0)8638 8684169

**Further Information**

Article Number: 107

**SECTION 2: Hazards identification**

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

**Regulation (EC) No. 1272/2008**

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**

**Regulation (EC) No. 1272/2008**

**Hazard components for labelling**

Basic mineral oils  
Chlorparaffines C14-C28  
n-paraffine C10 - C13, n-Alkanes, <2% Aromatics

**Signal word:** Danger

**Pictograms:**



**Hazard statements**

H304 May be fatal if swallowed and enters airways.  
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.  
P263 Avoid contact during pregnancy and while nursing.  
P273 Avoid release to the environment.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

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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

EUH066 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	
	GHS Classification			
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 EUH066			
	Reaction products of benzenesulfonic acid, mono-C20-24 (even)-sec-alcyl derivs. para-,calcium salts			< 1 %
	947-519-7		01-2120765489-36	
	Skin Sens. 1B; H317			
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 EUH statements: see section 16.

## 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.

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### **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**

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

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

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

No data

## **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

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### Hints on joint storage

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

### 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

#### 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.

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### 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

#### Acute toxicity

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
64742-56-9	Basic mineral oils				
	inhalation (4 h) aerosol	LC50 >5 mg/l	Rat		
85535-85-9	Chlorparaffines C14-C28				
	oral	LD50 mg/kg 4000	Rat		
	dermal	LD50 mg/kg 4000	Rat		
	inhalation (1 h) vapour	LC50 mg/l 48170	Rat		
84605-29-8	Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts				
	oral	LD50 mg/kg >2000	Rat		
	dermal	LD50 mg/kg >3200	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	Method
85535-85-9	Chlorparaffines C14-C28					
	Acute algae toxicity	ErC50 3,2 mg/l	96 h	Algae		
84605-29-8	Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts					
	Acute fish toxicity	LC50 mg/l 1-10	96 h	Fish		
	Acute crustacea toxicity	EC50 mg/l 1-10	48 h	Daphnia magna		

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### **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.

### **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 (ADR/RID)**

#### **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):**

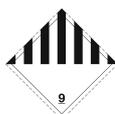
9

#### **14.4. Packing group:**

III

Hazard label:

9



Classification code:

M6

Special Provisions:

274 335 601

Limited quantity:

5 L

Excepted quantity:

E1

Transport category:

3

Hazard No:

90

Tunnel restriction code:

E

### **Inland waterways transport (ADN)**

#### **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

# Safety Data Sheet

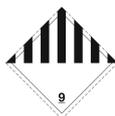
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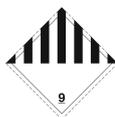
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Classification code: M6  
Special Provisions: 274 335 601  
Limited quantity: 5 L  
Excepted quantity: E1

### Marine transport (IMDG)

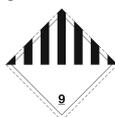
**14.1. UN number:** UN 3082  
**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
Chlorparaffines C14-C28  
**14.3. Transport hazard class(es):** 9  
**14.4. Packing group:** III  
Hazard label: 9



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  
**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.

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### 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:

< 5 % phosphates

5 - 15 % hydrocarbons, aliphatic.

15 - 30 % hydrocarbons, halogenated.

#### National regulatory information

Water contaminating class (D): 2 - clearly water contaminating

### 15.2. Chemical safety assessment

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

## SECTION 16: Other information

#### Relevant H and EUH statements (number and full text)

H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
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.
EUH066	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.)*