

Nano Engine Protect & Seal

Revision date: 14.12.2021

Product code: 1399

Page 1 of 10

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

1.1. Product identifier

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:	CTP GmbH	
Street:	Saalfelder Strasse 35h	
Place:	D-07338 Leutenberg	
Telephone:	+49 (0)36734 230-0	Telefax: +49 (0)36734 230-22
e-mail:	msds@bluechemgroup.com	
Contact person:	Jens Moeller, Dipl.-Chem.	Telephone: +49 (0)36734 230-19
Internet:	www.bluechemgroup.com	

1.4. Emergency telephone number: GBK GmbH: +49-(0)6132-84463 (24/7)

Further Information

Article Number: 9201, 9202, 9205, 9207, 9208, 9209

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Aspiration hazard: Asp. Tox. 1

Reproductive toxicity: Lact.

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.

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

Chloroparaffines 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.

Nano Engine Protect & Seal

Revision date: 14.12.2021

Product code: 1399

Page 2 of 10

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.
P263	Avoid contact during pregnancy and while nursing.
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

EUH066	Repeated exposure may cause skin dryness or cracking.
EUH208	Contains Reaction products of benzenesulfonic acid, mono-C20-24 (even)-sec-alcyl derivs. para-,calcium salts. May produce an allergic reaction.

Labelling of packages where the contents do not exceed 125 ml

Signal word: Danger

Pictograms:



Hazard statements

H304-H362

Precautionary statements

P101-P102-P301+P310-P331-P405-P501

2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Inhibitors
Preventing agent
Mineral oils
Synthetic agent combinations
Additives

Nano Engine Protect & Seal

Revision date: 14.12.2021

Product code: 1399

Page 3 of 10

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	
64771-72-8	n-paraffine C10 - C13, n-Alkanes, <2% Aromatics	5 - < 10 %
	929-018-5	01-2119475608-26
	Asp. Tox. 1; H304 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	
121158-58-5	p-Dodecylphenol	< 0.1 %
	310-154-3	01-2119513207-49
	Repr. 1B, Skin Corr. 1C, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 1; H360F H314 H318 H400 H410	

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
64742-56-9	265-159-2	Basic mineral oils	60 - < 65 %
		inhalation: LC50 = >5 mg/l (dusts or mists)	
85535-85-9	287-477-0	Chlorparaffines C14-C28	30 - < 35 %
		inhalation: LC50 = 48170 mg/l (vapours); dermal: LD50 = 4000 mg/kg; oral: LD50 = 4000 mg/kg	
64771-72-8	929-018-5	n-paraffine C10 - C13, n-Alkanes, <2% Aromatics	5 - < 10 %
		inhalation: LC50 = >5000 mg/l (vapours); dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg	
84605-29-8	283-392-8	Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts	< 1 %
		dermal: LD50 = >3200 mg/kg; oral: LD50 = >2000 mg/kg Skin Irrit. 2; H315: >= 6,25 - 100 Eye Dam. 1; H318: >= 12,5 - 100 Eye Irrit. 2; H319: >= 10 - < 12,5	
121158-58-5	310-154-3	p-Dodecylphenol	< 0.1 %
		M acute; H400: M=10 M chron.; H410: M=10	

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.

Nano Engine Protect & Seal

Revision date: 14.12.2021

Product code: 1399

Page 4 of 10

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 (CO₂). 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

Nano Engine Protect & Seal

Revision date: 14.12.2021

Product code: 1399

Page 5 of 10

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

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/cm³

Water solubility: insoluble
(at 20 °C)

Solubility in other solvents

Organic solvents

Viscosity / kinematic: 17,2 mm²/s
(at 40 °C)

9.2. Other information

No data

SECTION 10: Stability and reactivity

Nano Engine Protect & Seal

Revision date: 14.12.2021

Product code: 1399

Page 6 of 10

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

Acute toxicity

Based on available data, the classification criteria are not met.

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	Chloroparaffines C14-C28				
	oral	LD50 4000 mg/kg	Rat		
	dermal	LD50 4000 mg/kg	Rat		
	inhalation (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		
	inhalation (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

Based on available data, the classification criteria are not met.

Sensitising effects

Contains Reaction products of benzenesulfonic acid, mono-C20-24 (even)-sec-alcyl derivs. para-,calcium salts.

May produce an allergic reaction.

Carcinogenic/mutagenic/toxic effects for reproduction

Nano Engine Protect & Seal

Revision date: 14.12.2021

Product code: 1399

Page 7 of 10

May cause harm to breast-fed children. (Chlorparaffines C14-C28)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Repeated exposure may cause skin dryness or cracking.

Aspiration hazard

May be fatal if swallowed and enters airways.

Practical experience

Other observations

No information available.

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		
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

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

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

Disposal recommendations

Do not dispose with household waste.

Do not empty into drains or the aquatic environment.

Nano Engine Protect & Seal

Revision date: 14.12.2021

Product code: 1399

Page 8 of 10

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:

274 335 375 601

Limited quantity:

5 L

Excepted quantity:

E1

Transport category:

3

Hazard No:

90

Tunnel restriction code:

-

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



Classification code:

M6

Special Provisions:

274 335 375 601

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, 969

Nano Engine Protect & Seal

Revision date: 14.12.2021

Product code: 1399

Page 9 of 10

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 A197 A215
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 3, Entry 28, Entry 30

Information according to 2012/18/EU (SEVESO III): E1 Hazardous to the Aquatic Environment

Additional information

Contains: (Regulation (EC) No. 648/2004 (Detergents regulation))

< 5 % phosphates

5 - 15 % hydrocarbons, aliphatic.

15 - 30 % hydrocarbons, halogenated.

National regulatory information

Water hazard class (D): 2 - obviously hazardous to water

Additional information

Regarding the EU-directive 2008/105/EU contains the product none of the listed substances.

Nano Engine Protect & Seal

Revision date: 14.12.2021

Product code: 1399

Page 10 of 10

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

Chlorparaffines C14-C28

n-paraffine C10 - C13, n-Alkanes, <2% Aromatics

SECTION 16: Other information

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Asp. Tox. 1; H304	Calculation method
Lact.; H362	Calculation method
Aquatic Acute 1; H400	Calculation method
Aquatic Chronic 1; H410	Calculation method

Relevant H and EUH statements (number and full text)

H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H360F	May damage fertility.
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.
EUH208	Contains Reaction products of benzenesulfonic acid, mono-C20-24 (even)-sec-alcyl derivs. para-,calcium salts. May produce an allergic reaction.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance 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.)