

Nano Engine Protect & Seal

Print date: 29.09.2011

Product code: 345

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Chemical characterization

Inhibitors
Preventing agent
Mineral oils
Synthetic agent combinations
Additives

Hazardous components

EC No.	Chemical name	Quantity
CAS No.	Classification	
Index No.	GHS classification	
REACH No.		
287-477-0	Chlorparaffines C14-C28	30 - 35 %
85535-85-9	N R50-53-64-66	
	Lact., Aquatic Acute 1, Aquatic Chronic 1; H362 H400 H410	
265-233-4	n-paraffine C10 - C13	5 - 10 %
64771-72-8	Xn R65	
	Asp. Tox. 1; H304	
	Alcyl dithio phosphate	< 1 %
N/A	N R51-53	
	Aquatic Chronic 2; H411	

Full text of R- and H-phrases: see section 16.

SECTION 4: First aid measures

Description of first aid measures

After contact with skin

Take off immediately all contaminated clothing, including underwear and shoes .
Subsequently wash again 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.

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.

Indication of any immediate medical attention and special treatment needed

Warning about danger of aspiration.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media

Extinguishing powder. Sand. Carbon dioxide (CO2). Water spray.

Extinguishing media which must not be used for safety reasons

High power water jet.

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Special hazards arising from the substance or mixture

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

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

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.

Environmental precautions

Do not empty into drains or the aquatic environment.
In case of gas being released or leakage into waters, ground or the drainage system, the appropriate authorities must be informed.

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).

SECTION 7: Handling and storage

Precautions for safe handling

Advice on safe handling

Material must only be handled in closed installations or systems.
Avoid contact with skin and eyes.
Avoid oil mist

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.

SECTION 8: Exposure controls/personal protection

Control parameters

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 when done working with material; at breaks, lunch, shift changes, etc."

Respiratory protection

In case of accumulation of fumes/aerosols, provide adequate ventilation.
In case of fire: Wear self-contained breathing apparatus.



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Hand protection

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

Eye protection

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

Skin protection

Wear suitable protective clothing.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state:	viscous
Colour:	brown
Odour:	mild

Test method

Changes in the physical state

Flash point:	> 100 °C
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Lower explosion limits:

Upper explosion limits:

Density (at 20 °C):	0.89 - 0.92 g/cm ³
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Water solubility:	insoluble
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(at 20 °C)

Solubility in other solvents:	Organic solvents
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SECTION 10: Stability and reactivity

Conditions to avoid

No decomposition when used as intended.

Keep at temperature not exceeding 50 °C.

Incompatible materials

Oxidizing agents. acid, concentrated.

Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

Information on toxicological effects

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Acute toxicity

CAS No.	Chemical name				
	Exposure routes	Method	Dose	Species	h
85535-85-9	Chlorparaffines C14-C28				
	Acute oral toxicity	LD50	4000 mg/kg	rat.	
	Acute dermal toxicity	LD50	4000 mg/kg	rat.	
64771-72-8	n-paraffine C10 - C13				
	Acute oral toxicity	LD50	>5000 mg/kg	rat.	
	Acute dermal toxicity	LD50	>2000 mg/kg	Rabbit.	
N/A	Alcyl dithio phosphate				
	Acute oral toxicity	LD50	>2000 mg/kg	rat.	

Irritation and corrosivity

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

Sensitizing effects

no danger of sensitization.

SECTION 12: Ecological information

Toxicity

CAS No.	Chemical name				
	Aquatic toxicity	Method	Dose	Species	h
N/A	Alcyl dithio phosphate				
	Acute fish toxicity	LC50	1-10 mg/l	Fish	96
	Acute crustacea toxicity	EC50	1-10 mg/l	Daphnia magna	48

Further information

Do not empty into drains or the aquatic environment.

SECTION 13: Disposal considerations

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)

Other applicable information (land transport)

Not a hazardous material with respect to transportation regulations.

Inland waterways transport

Other applicable information (inland waterways transport)

Not a hazardous material with respect to transportation regulations.

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Marine transport

Other applicable information (marine transport)

Not a hazardous material with respect to transportation regulations.

Air transport

Other applicable information (air transport)

Not a hazardous material with respect to transportation regulations.

SECTION 15: Regulatory information

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

EU regulatory information

Additional information

Contains:

< 5 % phosphates

5 - 15 % hydrocarbons, aliphatic.

15 - 30 % hydrocarbons, halogenated.

National regulatory information

Water contaminating class (D): 2 - water contaminating

SECTION 16: Other information

Full text of R-phrases referred to under sections 2 and 3

- | | |
|-------|--|
| 50 | Very toxic to aquatic organisms. |
| 50/53 | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| 51 | Toxic to aquatic organisms. |
| 53 | May cause long-term adverse effects in the aquatic environment. |
| 64 | May cause harm to breastfed babies. |
| 65 | Harmful: may cause lung damage if swallowed. |
| 66 | Repeated exposure may cause skin dryness or cracking. |

Full text of H-Statements referred to under sections 2 and 3

- | | |
|------|---|
| H304 | May be fatal if swallowed and enters airways. |
| 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. |

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.)