



**Nano Engine Protect & Seal**

Print date: 22.02.2012

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

Lower explosion limits:

Upper explosion limits:

Density (at 20 °C): 0.89 - 0.92 g/cm<sup>3</sup>

Water solubility: insoluble

(at 20 °C)

Solubility in other solvents: Organic solvents

**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.

**Sensitising 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.)*