



Bio Diesel System Clean, Protect & Pour Point Improver

Print date: 19.09.2011

Product code: 354

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Chemical characterization

Additives
Antioxidants.
Ignition improver
Pour point depressant

Hazardous components

EC No.	Chemical name	Quantity
CAS No.	Classification	
Index No.	GHS classification	
REACH No.		
265-149-8	Distillates (petroleum, gasoline), hydrotreated light	20 - 25 %
64742-47-8	Xn R10-65 Flam. Liq. 3, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H226 H336 H304 H411	
248-363-6	2-Ethyl hexyl nitrate	5 - 10 %
27247-96-7	Xn, N R20/21-44-51-53-65 Acute Tox. 4, Acute Tox. 4, Asp. Tox. 1, Aquatic Chronic 2; H332 H312 H304 H411	
204-881-4	Butyl hydroxy toluene (BHT)	1 - 5 %
128-37-0	Xn, Xi R22-36/38 Acute Tox. 4, Eye Irrit. 2, Skin Irrit. 2; H302 H319 H315	
203-625-9	toluene	1 - 5 %
108-88-3	F, Repr. Cat. 3, Xn, Xi R63-11-38-65-67-48/20 Flam. Liq. 2, Skin Irrit. 2, Repr. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1; H225 H315 H361d H336 H373 H304	
	isononylphenole, ethoxylised	1 - 5 %
37205-87-1	Xn, Xi, N R22-41-51-53 Acute Tox. 4, Eye Dam. 1, Aquatic Chronic 2; H302 H318 H411	
265-198-5	Solvent naphtha (petroleum, gasoline), heavy arom.	< 1 %
64742-94-5	Xn, Xi, N R36/38-51-53-65 Flam. Liq. 3, Eye Irrit. 2, Asp. Tox. 1, Aquatic Chronic 2; H226 H319 H304 H411	

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

SECTION 4: First aid measures

Description of first aid measures

After inhalation

Move victim to fresh air. Put victim at rest and keep warm.

After contact with skin

Take off immediately all contaminated clothing, including underwear and shoes .
Subsequently wash again with: Water and soap.

After contact with eyes

Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Consult physician.

After ingestion

Let water be swallowed in little sips (dilution effect). 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.
After ingestion: Harmful: may cause lung damage if swallowed.



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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). alcohol resistant foam.

Extinguishing media which must not be used for safety reasons

High power water jet.

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.

Keep away from sources of ignition. No smoking.

Environmental precautions

Beat down gas/vapours/mist with water spray.

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. Vapours / aerosols must be extracted by suction immediately at point of origin.

Avoid contact with skin and eyes.

Advice on protection against fire and explosion

Keep away from sources of ignition. No smoking.

Take precautionary measures against static discharges.

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: 45 °C

SECTION 8: Exposure controls/personal protection

Control parameters



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Exposure limits (EH40)

CAS No.	Chemical name	ml/m ³	mg/m ³	F/ml	Category	Origin
128-37-0	2,6-Di-tert-butyl-p-cresol	-	10		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL
108-88-3	Toluene	50	191		TWA (8 h)	WEL
		100	384		STEL (15 min)	WEL

Exposure controls

Protective and hygiene measures

Take off immediately all contaminated clothing
Do not breathe gas/fumes/vapour/spray.
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.

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 solvent-proof protective clothing according to EN 465.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state: liquid
Colour: yellow
Odour: characteristic

Test method

Changes in the physical state

Flash point: > 65 °C
Lower explosion limits: > 0,6 vol. %
Upper explosion limits: > 7,0 vol. %
Ignition temperature: > 200 °C
Density (at 20 °C): 0.85 - 0.92 g/cm³
Water solubility: insoluble
(at 20 °C)
Solubility in other solvents: Organic solvents

SECTION 10: Stability and reactivity

Conditions to avoid

Only use material in places where open light, fire and other sources of ignition can be kept away.
No decomposition when used as intended.



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Incompatible materials

Oxidizing agents, acid, concentrated. Alkalis (alkalis), concentrated.

Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

CAS No.	Chemical name	Exposure routes	Method	Dose	Species	h
64742-47-8	Distillates (petroleum, gasoline), hydrotreated light					
	Acute oral toxicity	LD50	>15000 mg/kg		rat.	
	Acute dermal toxicity	LD50	3400 mg/kg		rat.	
27247-96-7	2-Ethyl hexyl nitrate					
	Acute oral toxicity	LD50	>5000 mg/kg		rat.	
	Acute dermal toxicity	LD50	>2000 mg/kg		Rabbit.	
	Acute inhalation toxicity	LC50	5-50 mg/l		rat.	4
128-37-0	Butyl hydroxy toluene (BHT)					
	Acute oral toxicity	LD50	890 mg/kg		rat.	
	Acute dermal toxicity	LD50	2400 mg/kg		rat.	
108-88-3	toluene					
	Acute oral toxicity	LD50	5300-5910 mg/kg		rat.	
	Acute dermal toxicity	LD50	12124 mg/kg		Rabbit.	
37205-87-1	isononylphenole, ethoxylised					
	Acute oral toxicity	LD50	2000 mg/kg		rat.	
64742-94-5	Solvent naphtha (petroleum, gasoline), heavy arom.					
	Acute oral toxicity	LD50	5 mg/kg		rat.	
	Acute dermal toxicity	LD50	>2 mg/kg		Rabbit.	
	Acute inhalation toxicity	LC50	>590 mg/l		rat.	4

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



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Toxicity

CAS No.	Chemical name				
	Aquatic toxicity	Method	Dose	Species	h
64742-47-8	Distillates (petroleum, gasoline), hydrotreated light				
	Acute fish toxicity	LC50	10 mg/l	Oncorhynchus mykiss	96
	Acute algae toxicity	ErC50	4,6 mg/l	Pseudokirchneriella subcapitata	72
	Acute crustacea toxicity	EC50	10 mg/l	Daphnia magna	48
27247-96-7	2-Ethyl hexyl nitrate				
	Acute fish toxicity	LC50	100-1000 mg/l	Fish	96
	Acute crustacea toxicity	EC50	1-10 mg/l	Daphnia magna	48
128-37-0	Butyl hydroxy toluene (BHT)				
	Acute fish toxicity	LC50	2,5 mg/l	Fish	96
108-88-3	toluene				
	Acute fish toxicity	LC50	24 mg/l	Oncorhynchus mykiss	96
	Acute algae toxicity	ErC50	12 mg/l	Pseudokirchneriella subcapitata	72
	Acute crustacea toxicity	EC50	11,5 mg/l	Daphnia magna	48
37205-87-1	isononylphenole, ethoxylised				
	Acute fish toxicity	LC50	1-10 mg/l	Brachydanio rerio	96
	Acute algae toxicity	ErC50	1-10 mg/l	Scenedesmus subspicatus	72

Bioaccumulative potential

Swims on the water.
Low potential of bio-accumulation.

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.
Have to add a Special treatment in compliance with official regulations in contact with approved waste disposal companies and with authorities in charge.

Contaminated packaging

Container must be completely emptied.
Do not pierce, cut up or weld unclean container. (Explosion hazard.)

SECTION 14: Transport information

Land transport (ADR/RID)

Other applicable information (land transport)

Not a hazardous material with respect to these transportation regulations.

Inland waterways transport

Other applicable information (inland waterways transport)

Not a hazardous material with respect to these transportation regulations.



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Marine transport

Other applicable information (marine transport)

Not a hazardous material with respect to these transportation regulations.

Air transport

Other applicable information (air transport)

Not a hazardous material with respect to these transportation regulations.

SECTION 15: Regulatory information

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

EU regulatory information

Additional information

Contains:

15 - 30 % hydrocarbons, aliphatic.

< 5 % hydrocarbons, aromatic.

< 5 % Phenols and halogenated phenols

Preservatives.

National regulatory information

Water contaminating class (D): 1 - slightly water contaminating

SECTION 16: Other information

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

10	Flammable.
11	Highly flammable.
20/21	Harmful by inhalation and in contact with skin.
22	Harmful if swallowed.
36/38	Irritating to eyes and skin.
38	Irritating to skin.
41	Risk of serious damage to eyes.
44	Risk of explosion if heated under confinement.
48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
51	Toxic to aquatic organisms.
52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
53	May cause long-term adverse effects in the aquatic environment.
63	Possible risk of harm to the unborn child.
65	Harmful: may cause lung damage if swallowed.
67	Vapours may cause drowsiness and dizziness.

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

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.



Safety Data Sheet
according to Regulation (EU) No. 1907/2006
power max



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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.)