



Bio-Diesel System Clean & Protect

Print date: 16.09.2011

Product code: 396

Page 2 of 9

36/37 Wear suitable protective clothing and gloves.

SECTION 3: Composition/information on ingredients

Mixtures

Chemical characterization

Additives
Antioxidants.
Ignition improver

Hazardous components

EC No.	Chemical name	Quantity
CAS No.	Classification	
Index No.	GHS classification	
REACH No.		
265-149-8	Distillates (petroleum, gasoline), hydrotreated light	60 - 65 %
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	20 - 25 %
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)	10 - 15 %
128-37-0	Xn, Xi R22-36/38 Acute Tox. 4, Eye Irrit. 2, Skin Irrit. 2; H302 H319 H315	
	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 - 5 %
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	
202-049-5	naphthalene	< 1 %
91-20-3	Carc. Cat. 3, Xn, N R40-22-50-53	
601-052-00-2	Carc. 2, Acute Tox. 4, Aquatic Acute 1, Aquatic Chronic 1; H351 H302 H400 H410	

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.



Bio-Diesel System Clean & Protect

Print date: 16.09.2011

Product code: 396

Page 3 of 9

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.

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



Bio-Diesel System Clean & Protect

Print date: 16.09.2011

Product code: 396

Page 4 of 9

SECTION 8: Exposure controls/personal protection

Control parameters

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
91-20-3	Naphthalene	-	-		TWA (8 h)	CHAN
		-	-		STEL (15 min)	CHAN

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 - 0.87 g/cm³
Water solubility: insoluble
(at 20 °C)
Solubility in other solvents: Organic solvents

SECTION 10: Stability and reactivity



Bio-Diesel System Clean & Protect

Print date: 16.09.2011

Product code: 396

Page 5 of 9

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.

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.	
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
91-20-3	naphthalene					
	Acute oral toxicity	ATE		500 mg/kg		

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

Bio-Diesel System Clean & Protect

Print date: 16.09.2011

Product code: 396

Page 6 of 9

Toxicity

CAS No.	Chemical name		Method	Dose	Species	h
	Aquatic toxicity					
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
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.

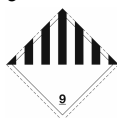
Contaminated packaging

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

SECTION 14: Transport information

Land transport (ADR/RID)

UN number: UN3082
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport hazard class(es): 9
Packing group: III
 Hazard label: 9



Classification code: M6

Bio-Diesel System Clean & Protect

Print date: 16.09.2011

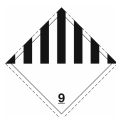
Product code: 396

Page 7 of 9

Special Provisions: 274 335 601
 Limited quantity: 5 L
 Transport category: 3
 Hazard-no.: 90
 Tunnel restriction code: E

Inland waterways transport

UN number: UN3082
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport hazard class(es): 9
Packing group: III
 Hazard label: 9



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

Marine transport

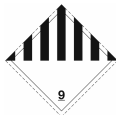
UN number: UN3082
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport hazard class(es): 9
Packing group: III
 Hazard label: 9



Marine pollutant: P
 Special Provisions: 274, 335
 Limited quantity: 5 L
 EmS: F-A, S-F

Air transport

UN/ID number: UN3082
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport hazard class(es): 9
Packing group: III
 Hazard label: 9



Special Provisions: A97 A158
 Limited quantity Passenger: 30 kg G
 IATA-packing instructions - Passenger: 964
 IATA-max. quantity - Passenger: 450 L
 IATA-packing instructions - Cargo: 964
 IATA-max. quantity - Cargo: 450 L

Environmental hazards



Bio-Diesel System Clean & Protect

Print date: 16.09.2011

Product code: 396

Page 8 of 9

Dangerous for the environment: yes



SECTION 15: Regulatory information

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

EU regulatory information

Additional information

Contains:

> 30 % hydrocarbons, aliphatic.

< 5 % Phenols and halogenated phenols

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

- | | |
|-------|---------------------------------------------------------------------------------------------|
| 10 | Flammable. |
| 20/21 | Harmful by inhalation and in contact with skin. |
| 22 | Harmful if swallowed. |
| 36 | Irritating to eyes. |
| 36/38 | Irritating to eyes and skin. |
| 40 | Limited evidence of a carcinogenic effect. |
| 41 | Risk of serious damage to eyes. |
| 44 | Risk of explosion if heated under confinement. |
| 50 | Very toxic to aquatic organisms. |
| 51 | Toxic to aquatic organisms. |
| 51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| 53 | May cause long-term adverse effects in the aquatic environment. |
| 65 | Harmful: may cause lung damage if swallowed. |

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

- | | |
|------|-------------------------------------------------------|
| H226 | Flammable liquid and vapour. |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H310 | Fatal in contact with skin. |
| 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. |
| H351 | Suspected of causing cancer. |
| 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.



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



Bio-Diesel System Clean & Protect

Print date: 16.09.2011

Product code: 396

Page 9 of 9

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)