



**Diesel System Cleaner**

Print date: 05.09.2011

Product code: 232

Page 2 of 8

**Chemical characterization**

Detergents, Dispersants	Sum of ingredients:
Synthetic agent combinations	20 - 60 %
corrosion preventing agent	
Lubricants	
Solvent mixture	
Surface tension compounds	
Multifunction Diesel Fuel Additive	

**Hazardous components**

EC No.	Chemical name	Quantity
CAS No.	Classification	
Index No.	GHS classification	
REACH No.		
265-149-8	Distillates (petroleum, gasoline), hydrotreated light	70 - 75 %
64742-47-8	Xn R65-66	
	Asp. Tox. 1; H304	
215-535-7	xylene	10 - 15 %
1330-20-7	Xn, Xi R10-20/21-38	
601-022-00-9	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2; H226 H332 H312 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	

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

**Further Information**

Nota H

**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.

**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.

**Diesel System Cleaner**

Print date: 05.09.2011

Product code: 232

Page 3 of 8

Carbon dioxide (CO<sub>2</sub>).  
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**

Absorb with liquid-binding material ( e.g. sand, diatomaceous earth, acid- or universal binding agents).  
Prevent spreading over great surfaces (e.g. by damming or installing oil booms).

**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.

**SECTION 8: Exposure controls/personal protection**

**Control parameters**

**Exposure limits (EH40)**

CAS No.	Chemical name	ml/m <sup>3</sup>	mg/m <sup>3</sup>	F/ml	Category	Origin
108-88-3	Toluene	50	191		TWA (8 h)	WEL
		100	384		STEL (15 min)	WEL

**Diesel System Cleaner**

Print date: 05.09.2011

Product code: 232

Page 4 of 8

**Biological Monitoring Guidance Values (EH40)**

CAS No.	Chemical name	Parameter	Value	Test material	Sampling time
1330-20-7	Xylene, o-, m-, p- or mixed isomers	methyl hippuric acid	650 mmol/mol	urine	Post shift

**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**

Provide for good ventilation, when develop aerosols/mist.  
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: brown  
Odour: aromatic

**Test method**

**Changes in the physical state**

Boiling point: 10 - 210 °C  
Flash point: 45 °C  
Lower explosion limits: > 0,6 vol. %  
Upper explosion limits: > 7,0 vol. %  
Ignition temperature: > 200 °C  
Vapour pressure: > 8 hPa  
(at 20 °C)  
Density (at 20 °C): 0.824 - 0.9 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**

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

**Diesel System Cleaner**

Print date: 05.09.2011

Product code: 232

Page 5 of 8

**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	>5000 mg/kg	rat.	
	Acute dermal toxicity	LD50	>2000 mg/kg	Rabbit.	
	Acute inhalation toxicity	LC50	>5,2 mg/l	rat.	4
1330-20-7	xylene				
	Acute oral toxicity	LD50	4300 mg/kg	rat.	
	Acute dermal toxicity	LD50	3200 mg/kg	Rabbit.	
108-88-3	toluene				
	Acute oral toxicity	LD50	5300-5910 mg/kg	rat.	
	Acute dermal toxicity	LD50	12124 mg/kg	Rabbit.	

**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
64742-47-8	Distillates (petroleum, gasoline), hydrotreated light				
	Acute fish toxicity	LC50	45 mg/l	Pimephales promelas	96
	Acute algae toxicity	ErC50	4,2 mg/l	Selenastrum capricornutum	96
1330-20-7	xylene				
	Acute fish toxicity	LC50	26,7 mg/l	Pimephales promelas	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

**Bioaccumulative potential**

Swims on the water.

Low potential of bio-accumulation.

**Diesel System Cleaner**

Print date: 05.09.2011

Product code: 232

Page 6 of 8

**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:** UN1993  
**UN proper shipping name:** FLAMMABLE LIQUID, N.O.S.  
**Transport hazard class(es):** 3  
**Packing group:** III  
Hazard label: 3



Classification code: F1  
Special Provisions: 274 601 640E  
Limited quantity: 5 L  
Transport category: 3  
Hazard-no.: 30  
Tunnel restriction code: D/E

**Inland waterways transport**

**UN number:** UN1993  
**UN proper shipping name:** FLAMMABLE LIQUID, N.O.S.  
**Transport hazard class(es):** 3  
**Packing group:** III  
Hazard label: 3



Classification code: F1  
Special Provisions: 274 601 640E  
Limited quantity: 5 L

**Marine transport**

**UN number:** UN1993  
**UN proper shipping name:** FLAMMABLE LIQUID, N.O.S.


**Diesel System Cleaner**

Print date: 05.09.2011

Product code: 232

Page 7 of 8

**Transport hazard class(es):** 3  
**Packing group:** III  
 Hazard label: 3



Marine pollutant: -  
 Special Provisions: 223, 274, 955  
 Limited quantity: 5 L  
 EmS: F-E, S-E

**Air transport**

**UN/ID number:** UN1993  
**UN proper shipping name:** FLAMMABLE LIQUID, N.O.S.  
**Transport hazard class(es):** 3  
**Packing group:** III  
 Hazard label: 3



Special Provisions: -  
 Limited quantity Passenger: 10 L  
 IATA-packing instructions - Passenger: 355  
 IATA-max. quantity - Passenger: 60 L  
 IATA-packing instructions - Cargo: 366  
 IATA-max. quantity - Cargo: 220 L

**Environmental hazards**

Dangerous for the environment: no

**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 - 15 % hydrocarbons, aromatic.

**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.  
 11 Highly flammable.  
 20/21 Harmful by inhalation and in contact with skin.  
 38 Irritating to skin.  
 48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.  
 63 Possible risk of harm to the unborn child.  
 65 Harmful: may cause lung damage if swallowed.



# **Safety Data Sheet**

according to Regulation (EU) No. 1907/2006

## **Diesel System Cleaner**

Print date: 05.09.2011

Product code: 232

Page 8 of 8

- 66 Repeated exposure may cause skin dryness or cracking.
- 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.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H315 Causes skin 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.

### **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.)*