



Diesel Cetane Check Fuel, low

Version 1.7

Revision Date 2011-09-22

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product information

Trade name : Diesel Cetane Check Fuel, low
 Material : 1104937, 1024260, 1024259, 1024261, 1024262, 1024258

EC-No.Registration number

Chemical Name	CAS-No. Index-No.	Legal Entity Registration number
Diesel fuel	68476-34-6 649-227-00-2	Chevron Phillips Chemicals International NV Pre-Registered
Distillate (Petroleum), Alkylate	64741-73-7 649-419-00-6	Chevron Phillips Chemicals International NV Pre-Registered
Light Aromatic Solvent Naphtha	64742-95-6 649-356-00-4	Chevron Phillips Chemicals International NV 01-2119486773-24-0001
C13-C16 Isoalkanes	68551-20-2	Chevron Phillips Chemicals International NV Pre-Registered

Company : Specialty Chemicals
 10001 Six Pines Drive
 The Woodlands, TX 77380

Local : Chevron Phillips Chemicals International N.V.
 Brusselsesteenweg 355
 B-3090 Overijse
 Belgium

MSDS Requests: (800) 852-5530
 Technical Information: (832) 813-4862
 Responsible Party: Product Safety Group
 Email:msds@cpchem.com

Emergency telephone:

Health:

866.442.9628 (North America)
 1.832.813.4984 (International)

Transport:

North America: CHEMTREC 800.424.9300 or 703.527.3887
 Asia: +800 CHEMCALL (+800 2436 2255) China: 0532.8388.9090
 EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)
 Chemcare Asia: Tel: +65 6848 9048 - Mob: +65 8382 9188 - Fax: +65 6848
 South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600

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Responsible Department : Product Safety and Toxicology Group
 E-mail address : MSDS@CPChem.com
 Website : www.CPChem.com

2. HAZARDS IDENTIFICATION**Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Flammable liquids, Category 3	H226: Flammable liquid and vapor.
Skin irritation, Category 2	H315: Causes skin irritation.
Germ cell mutagenicity, Category 1B	H340: May cause genetic defects.
Carcinogenicity, Category 1B	H350: May cause cancer.
Aspiration hazard, Category 1	H304: May be fatal if swallowed and enters airways.
Chronic aquatic toxicity, Category 2	H411: Toxic to aquatic life with long lasting effects.

Classification (67/548/EEC, 1999/45/EC)

Flammable	R10: Flammable.
Harmful	R65: Harmful: may cause lung damage if swallowed.
Carcinogenic Category 3	R40: Limited evidence of a carcinogenic effect.
Irritant	R38: Irritating to skin.
Dangerous for the environment	R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
	R67: Vapors may cause drowsiness and dizziness.

Label elements**Labeling (REGULATION (EC) No 1272/2008)**

Hazard pictograms :



Signal Word : Danger

Hazard Statements	:	H226	Flammable liquid and vapor.
		H304	May be fatal if swallowed and enters airways.
		H315	Causes skin irritation.
		H340	May cause genetic defects.
		H350	May cause cancer.
		H411	Toxic to aquatic life with long lasting effects.

Precautionary Statements	:	Prevention:	
		P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
		P273	Avoid release to the environment.
		P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
		Response:	
		P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
		P303 + P361 + P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
		P308 + P313	IF exposed or concerned: Get medical

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P331 advice/ attention.
Do NOT induce vomiting.

Storage:
P403 + P235 Store in a well-ventilated place. Keep cool.

Hazardous ingredients which must be listed on the label:

- 68476-34-6 Diesel fuel
- 64742-95-6 Light Aromatic Solvent Naphtha

Additional Labeling:

Restricted to professional users.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : Diesel Special Test Fuel
Low Cetane Check Fuel Diesel

Molecular formula : Mixture

Mixtures**Hazardous ingredients**

Chemical Name	CAS-No. EINECS-No.	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [wt%]
Diesel fuel	68476-34-6 270-676-1	Carc.Cat.3; R40 R38 R67 R52/53 R10 R66 R65	Carc. 2; H351 Flam. Liq. 3; H226 Aquatic Chronic 2; H411 Asp. Tox. 1; H304 Skin Irrit. 2; H315	100
C13-C16 Isoalkanes	68551-20-2 271-370-0	Xn; Xn; R65-R66	Asp. Tox. 1; H304	0 - 30
Naphthalene	91-20-3 202-049-5	Carc.Cat.3; R40 Xn; R22 N; R50-R53	Carc. 2; H351 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Flam. Sol. 2; H228 Acute Tox. 4; H302 STOT RE 1; H372	1 - 5

EC-No.Registration number

Chemical Name	CAS-No. EINECS-No.	Registration number
Diesel fuel	68476-34-6 270-676-1	Chevron Phillips Chemicals International NV Pre-Registered
Distillate (Petroleum),	64741-73-7	Chevron Phillips Chemicals International NV

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Alkylate	265-074-0	Pre-Registered
Light Aromatic Solvent Naphtha	64742-95-6 265-199-0	Chevron Phillips Chemicals International NV 01-2119486773-24-0001
C13-C16 Isoalkanes	68551-20-2 271-370-0	Chevron Phillips Chemicals International NV Pre-Registered

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

- General advice : Move out of dangerous area. Show this material safety data sheet to the doctor in attendance. Symptoms of poisoning may only appear several hours later. Do not leave the victim unattended.
- If inhaled : If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.
- In case of skin contact : If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.
- In case of eye contact : Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear. Do NOT induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

5. FIRE-FIGHTING MEASURES

- Flash point : > 47 °C (> 117 °F)
- Autoignition temperature : No data available
- Suitable extinguishing media : Alcohol-resistant foam. Carbon dioxide (CO₂). Dry chemical.
- Unsuitable extinguishing media : High volume water jet.
- Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Special protective equipment for fire-fighters : Wear self contained breathing apparatus for fire fighting if necessary.
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case

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- of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.
- Fire and explosion protection : Do not spray on an open flame or any other incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Keep away from open flames, hot surfaces and sources of ignition.
- Hazardous decomposition products : Hydrocarbons. Carbon oxides.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
- Environmental precautions : Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

7. HANDLING AND STORAGE**Handling**

- Advice on safe handling : Avoid formation of aerosol. Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations.
- Advice on protection against fire and explosion : Do not spray on an open flame or any other incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Keep away from open flames, hot surfaces and sources of ignition.

Storage

- Requirements for storage areas and containers : No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Ingredients with workplace control parameters****Chevron Phillips Chemical Company LP**

Ingredients	Basis	Value	Control parameters	Note
C13-C16 Isoalkanes	Manufacturer	TWA	400 ppm,	

LT

Komponentai	Pagrindas, bazė	Vertė	Kontrolės parametrai	Pastaba
Naphthalene	LT OEL	IPRD	10 ppm, 50 mg/m3	

LU

Composants	Base	Valeur	Paramètres de contrôle	Note
Naphthalene	LU OEL	TWA	10 ppm, 50 mg/m3	

LV

Sastāvdaļas	Bāze	Vērtība	Pārvaldības parametri	Piezīme
Naphthalene	LV OEL	AER 8 st	10 ppm, 50 mg/m3	

NL

Bestanddelen	Basis	Waarde	Controleparameters	Opmerking
Naphthalene	NL MAC	TGG-8 uur	50 mg/m3	
	NL MAC	TGG-15 min	80 mg/m3	

PL

Składniki	Podstawa	Wartość	Parametry dotyczące kontroli	Uwaga
Naphthalene	PL NDS	NDS	20 mg/m3	
	PL NDS	NDSch	50 mg/m3	

PT

Componentes	Bases	Valor	Parâmetros de controlo	Nota
Diesel fuel	PT OEL	VLE-MP	100 mg/m3	P, A3,
Naphthalene	PT OEL	VLE-MP	10 ppm,	(1), P, A4,
	PT OEL	VLE_CD	15 ppm,	(1), P, A4,

- (1) Abrangido por legislação nacional específica ou por legislação comunitária não transposta
A3 Agente carcinogénico confirmado nos animais de laboratório com relevância desconhecida no Homem
A4 Agentes não classificáveis como carcinogénicos no Homem
P Perigo de absorção cutânea

SE

Beståndsdelar	Grundval	Värde	Kontrollparametrar	Anmärkning
Naphthalene	SE AFS	NGV	10 ppm, 50 mg/m3	
	SE AFS	KTV	15 ppm, 80 mg/m3	

SI

Komponente	Osnova	Vrednost	Parametri nadzora	Pripomba
Naphthalene	SI OEL	MV	10 ppm, 50 mg/m3	EU,

EU European Union - mejna vrednost določena na ravni Evropske unije

SK

Súčasť	Podstata	Hodnota	Kontrolné parametre	Poznámka
Naphthalene	SK OEL	NPEL	10 ppm, 50 mg/m3	K,

- K Znamená, že faktor môže byť l'ahko absorbovaný kožou. Niektoré faktory, ktoré l'ahko prenikajú kožou, môžu spôsobovať až smrteľné otravy, často bez varovných príznakov (napr. anilín, nitrobenzén, nitroglykol, fenoly a pod.). Pri látkach s významným prienikom cez kožu, éi už v podobe kvapalín alebo pár, je osobitne dôležité zabrániť kožnému kontaktu.

AT

Inhaltsstoffe	Basis	Wert	Zu überwachende Parameter	Bemerkung
Naphthalene	AT OEL	TMW	10 ppm, 50 mg/m3	H,

H Besondere Gefahr der Hautresorption

BE

Bestanddelen	Basis	Waarde	Controleparameters	Opmerking
Naphthalene	BE OEL	TGG 8 hr	10 ppm, 53 mg/m3	D,
	BE OEL	TGG 15 min	15 ppm, 80 mg/m3	D,

- D Opname van het agens via de huid, de slijmvliezen of de ogen vormt een belangrijk deel van de totale blootstelling. Deze opname kan het gevolg zijn van zowel direct contact als zijn aanwezigheid in de lucht.

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CZ

Složky	Základ	Hodnota	Kontrolní parametry	Poznámka
Naphthalene	CZ OEL	PEL	50 mg/m ³	
	CZ OEL	NPK-P	100 mg/m ³	

DK

Komponenter	Basis	Værdi	Kontrolparametre	Note
Naphthalene	DK OEL	GV	10 ppm, 50 mg/m ³	K, E,

E At stoffet har en EF-grænseværdi

K Betyder, at stoffet er optaget på listen over stoffer, der anses for at være kræftfremkaldende.

EE

Komponendid, osad	Alused	Väärtus	Kontrolliparameetrid	Märkused
Naphthalene	EE OEL	Piirnorm	10 ppm, 50 mg/m ³	

ES

Componentes	Base	Valor	Parámetros de control	Nota
Naphthalene	ES VLA	VLA-ED	10 ppm, 53 mg/m ³	vía dérmica,
	ES VLA	VLA-EC	15 ppm, 80 mg/m ³	vía dérmica,

vía dérmica Vía dérmica

FI

Aineosat	Peruste	Arvo	Valvontaa koskevat muutujat	Nota
Naphthalene	FI OEL	HTP-arvot 8h	1 ppm, 5 mg/m ³	*
	FI OEL	HTP-arvot 15 min	2 ppm, 10 mg/m ³	*

* Lisätty tai muutettu tähän painokseen

FR

Composants	Base	Valeur	Paramètres de contrôle	Note
Naphthalene	FR VLE	VME	10 ppm, 50 mg/m ³	C3, normal,

C3 Substances préoccupants pour l'homme en raison déffets cancérôgènes possible
normal Valeurs limites indicatives**GR**

Συστατικά	Βάση	Τιμή	Παράμετροι ελέγχου	Σημείωση
Naphthalene	GR OEL	TWA	10 ppm, 50 mg/m ³	

HU

Komponensek	Bázis	Érték	Ellenőrzési paraméterek	Megjegyzés
Naphthalene	HU OEL	AK-érték	50 mg/m ³	b, EU1, i,

b Bőrön át is felszívódik. Az AK-értékek a veszélyes anyagoknak ezt a tulajdonságát, illetve az ebből származó expozíciót csak a levegőben megengedett koncentrációjuk mértékének megfelelően veszik figyelembe

EU1 91/322/EGK irányelvben közölt érték

i Ingerlő anyag (izgatja a bőrt, nyálkahártyát, szemet vagy mindhármát)

IE

Ingredients	Basis	Value	Control parameters	Note
Naphthalene	IE OEL	OELV - 8 hrs (TWA)	10 ppm, 50 mg/m ³	
	IE OEL	OELV - 15 min (STEL)	15 ppm, 75 mg/m ³	

Personal protective equipment

- Respiratory protection : In the case of vapor formation use a respirator with an approved filter.
- Hand protection : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Eye protection : Eye wash bottle with pure water. Tightly fitting safety goggles.
- Skin and body protection : Impervious clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Hygiene measures : When using do not eat or drink. When using do not smoke.

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Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties****Appearance**

Physical state : Liquid
Color : Pale yellow to brown (if undyed), red to purple (dyed)
Odor : Mild

Safety data

Flash point : > 47 °C (> 117 °F)
Lower explosion limit : No data available
Upper explosion limit : No data available

Oxidizing properties : no
Autoignition temperature : No data available
Molecular formula : Mixture
Molecular Weight : Not applicable
pH : Not applicable
Pour point : No data available
Boiling point/boiling range : 191 - 343 °C (376 - 649 °F)
Vapor pressure : No data available
Relative density : 0,87, 16 °C(61 °F)
Water solubility : Negligible
Partition coefficient: n-octanol/water : No data available
Viscosity, kinematic : 2,55 cSt
at 40 °C (104 °F)
Relative vapor density : No data available
Evaporation rate : No data available
Percent volatile : > 99 %

10. STABILITY AND REACTIVITY**Possibility of hazardous reactions**

Conditions to avoid : Heat, flames and sparks.

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- Materials to avoid : May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
- Other data : This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
No decomposition if stored and applied as directed.

11. TOXICOLOGICAL INFORMATION**Acute oral toxicity**

- Diesel fuel : LD50: 7.830 mg/kg
- C13-C16 Isoalkanes : LD50: > 10.000 mg/kg
Species: rat
Information given is based on data obtained from similar substances.
- Naphthalene : LD50: 2.300 mg/kg
Species: rat
Sex: male and female

Acute inhalation toxicity

- C13-C16 Isoalkanes : LC50: > 5,2 mg/l
Exposure time: 4 HR
Species: rat
Information given is based on data obtained from similar substances.
- Naphthalene : LC50: >0.38 mg/m³ Exposure time: 4 HR

Acute dermal toxicity

- Diesel fuel : LD50: > 4.350 mg/kg
see user defined free text
- C13-C16 Isoalkanes : LD50: > 2.000 mg/kg
Species: rabbit
Information given is based on data obtained from similar substances.
- Naphthalene : LD50: > 2.000 mg/kg
Species: rabbit

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- Skin irritation** : Irritating to skin.

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- Eye irritation** : Vapors may cause irritation to the eyes, respiratory system and the skin.

Sensitization

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C13-C16 Isoalkanes : Classification: Did not cause sensitization on laboratory animals.
Information given is based on data obtained from similar substances.

Naphthalene : Classification: Did not cause sensitization on laboratory animals.

Repeated dose toxicity

Diesel fuel : Species: rat
Application Route: Dermal
Dose: 0, 435, 1740, 4350 mg/kg
Exposure time: 28 day
Number of exposures: daily, 5 days/week
Lowest observable effect level: 435 mg/kg

Carcinogenicity

Diesel fuel : Species: mouse
Dose: 0, 50 ul
Exposure time: lifetime
Number of exposures: 2 times/wk
Remarks: Moderate dermal carcinogen

Naphthalene : Species: mouse
Sex: male
Dose: 10, 30 ppm
Exposure time: 105 weeks
Number of exposures: 6 hours/day, 5 days/week
Test substance: yes
Print Date: No information available.
Remarks: No evidence of carcinogenicity

Species: mouse
Sex: female
Dose: 10, 30 ppm
Exposure time: 105 weeks
Number of exposures: 6 hours/day, 5 days/week
Test substance: yes
Print Date: No information available.
Remarks: increased incidence of alveolar/bronchiolar adenomas

Species: rat
Sex: male and female
Dose: 10, 30, 60 ppm
Exposure time: 105 weeks
Number of exposures: 6 hours/day, 5 days/week
Test substance: yes
Print Date: No information available.
Remarks: nose respiratory epithelial adenoma, increased incidence of olfactory neuroblastomas

Teratogenicity

Diesel fuel : Species: rat
Application Route: Inhalation
Dose: 0, 100, 400 ppm

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Naphthalene

Number of exposures: 6 h/d
 Test period: GD 6-15
 NOAEL Teratogenicity: 401.5 ppm
 NOAEL Maternal: 401.5 ppm

Species: rabbit
 Application Route: oral gavage
 Dose: 40, 200, 400 mg/kg
 Test period: 29 d, GD 6-18
 NOAEL Teratogenicity: 400 mg/kg

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Aspiration toxicity : Substances known to cause human aspiration toxicity hazards or to be regarded as if they cause human aspiration toxicity hazard.

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Further information : Solvents may degrease the skin.

12. ECOLOGICAL INFORMATION**Toxicity to fish**

Naphthalene : LC50: 3,2 mg/l
 Exposure time: 96 HR
 Species: Pimephales promelas (fathead minnow)

Toxicity to daphnia and other aquatic invertebrates.

Diesel fuel : EC50: 12,99 mg/l
 Exposure time: 48 HR
 Species: Daphnia magna (Water flea)
 Method: OECD Test Guideline 202

C13-C16 Isoalkanes : No data available

Naphthalene : LC50: 2,16 mg/l
 Exposure time: 48 HR
 Species: Daphnia magna (Water flea)

Toxicity to algae

Naphthalene : EC50: 2,96 mg/l
 Exposure time: 48 HR
 Species: Selenastrum capricornutum (algae)

Elimination information (persistence and degradability)

Biodegradability : This material is not expected to be readily biodegradable.

Further information on ecology

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
 Toxic to aquatic life with long lasting effects.

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13. DISPOSAL CONSIDERATIONS

The information in this MSDS pertains only to the product as shipped.

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

Product : The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

14. TRANSPORT INFORMATION

The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition).

Consult the appropriate domestic or international mode-specific and quantity-specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.) Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the MSDS and the bill of lading.

US DOT (United States Department of Transportation)

UN1202, DIESEL FUEL, 3, III

IMO / IMDG (International Maritime Dangerous Goods)

UN1202, DIESEL FUEL, 3, III, MARINE POLLUTANT, (Naphthalene), (> 47 °C)

IATA (International Air Transport Association)

UN1202, DIESEL FUEL, 3, III

ADR (Agreement on Dangerous Goods by Road (Europe))

UN1202, DIESEL FUEL, 3, III, (D/E)

RID (Regulations concerning the International Transport of Dangerous Goods (Europe))

UN1202, DIESEL FUEL, 3, III

ADN (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)

UN1202, DIESEL FUEL, 3, III

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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

15. REGULATORY INFORMATION**National legislation**

Major Accident Hazard Legislation : 96/82/EC Update: 2003
Flammable.
6
Quantity 1: 5.000 t
Quantity 2: 50.000 t

Water contaminating class (Germany) : WGK 3 highly water endangering
List with water hazardous substances (Class 1 till 3) in VwVwS

Notification status

Europe REACH : Not in compliance with the inventory
United States of America US.TSCA : On the inventory, or in compliance with the inventory
Canada DSL : On the inventory, or in compliance with the inventory
Australia AICS : On the inventory, or in compliance with the inventory
New Zealand NZIoC : On the inventory, or in compliance with the inventory
Japan ENCS : On the inventory, or in compliance with the inventory
Korea KECI : On the inventory, or in compliance with the inventory
Philippines PICCS : On the inventory, or in compliance with the inventory
China IECSC : On the inventory, or in compliance with the inventory

16. OTHER INFORMATION**Further information**

Legacy MSDS Number : CPC00523

Significant changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information in this MSDS pertains only to the product as shipped.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Key or legend to abbreviations and acronyms used in the safety data sheet			
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical	LOAEL	Lowest Observed Adverse Effect

ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical	LOAEL	Lowest Observed Adverse Effect

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	Substances		Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%		

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

R10	Flammable.
R22	Harmful if swallowed.
R38	Irritating to skin.
R40	Limited evidence of a carcinogenic effect.
R50	Very toxic to aquatic organisms.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R53	May cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapors may cause drowsiness and dizziness.

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

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H226	Flammable liquid and vapor.
H228	Flammable solid
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H340	May cause genetic defects.
H350	May cause cancer.
H351	Suspected of causing cancer.
H372	Causes damage to organs through prolonged or repeated exposure.
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.