

**Diesel Reference Fuel T**

Version 1.4

Revision Date 2011-05-09

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**Product information**

Trade name : Diesel Reference Fuel T
Material : 1108916, 1024276, 1024273, 1024274, 1024275, 1032194

EC-No.Registration number

Chemical Name	CAS-No. Index-No.	Registration number
Distillates (petroleum), Hydrotreated light Paraffinic	64742-55-8 649-468-00-3	01-2119487077-29-0013

Company : Chevron Phillips Chemical Company LP
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

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**

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Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3	H226: Flammable liquid and vapor.
Skin irritation, Category 2	H315: Causes skin irritation.
Carcinogenicity, Category 2	H351: Suspected of causing cancer.
Specific target organ systemic toxicity - repeated exposure, Category 2	H373: May cause damage to organs through prolonged or repeated exposure.
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.
Specific target organ systemic toxicity - single exposure, Category 3	H336: May cause drowsiness or dizziness.

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

Flammable	R10: Flammable.
Carcinogenic Category 2	R45: May cause cancer.
Harmful	R65: Harmful: may cause lung damage if swallowed.
Irritant	R38: Irritating to skin.
Dangerous for the environment	R67: Vapors may cause drowsiness and dizziness. R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.
		H336	May cause drowsiness or dizziness.
		H351	Suspected of causing cancer.
		H373	May cause damage to organs through prolonged or repeated exposure.
		H411	Toxic to aquatic life with long lasting effects.

Precautionary Statements	:	Prevention:	
		P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
		P260	Do not breathe dust/fume/gas/mist/vapor/spray.
		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.
		P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable

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P308 + P313 for breathing.
IF exposed or concerned: Get medical advice/ attention.

P331 Do NOT induce vomiting.

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

Hazardous ingredients which must be listed on the label:

- 629-59-4 n-Tetradecane
- 68476-34-6 Diesel fuel
- 8008-20-6 Kerosene C9-C16
- 91-20-3 Naphthalene

3. COMPOSITION/INFORMATION ON INGREDIENTS

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	0 - 40
Kerosene C9-C16	8008-20-6 232-366-4	Xn; R65	Asp. Tox. 1; H304 Flam. Liq. 3; H226 Skin Irrit. 2; H315 STOT SE 3; H336	0 - 35
Distillates (petroleum), Hydrotreated light Paraffinic	64742-55-8 265-158-7	Carc.Cat.2; R45	Asp. Tox. 1; H304	0 - 20
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

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Distillates (petroleum), Hydrotreated light Paraffinic	64742-55-8 265-158-7	01-2119487077-29-0013
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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. Consult a physician. 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 : Call a physician or poison control center immediately. If unconscious place in recovery position and seek medical advice.
- 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 : Immediately flush eye(s) with plenty of water. 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 of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.

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- 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 : Prevent unauthorized access. 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****LT**

Komponentai	Pagrindas, bazė	Vertė	Kontrolės parametrai	Pastaba
Kerosene C9-C16	LT OEL	IPRD	350 mg/m ³	
	LT OEL	TPRD	500 mg/m ³	
Naphthalene	LT OEL	IPRD	10 ppm, 50 mg/m ³	

LU

Composants	Base	Valeur	Paramètres de contrôle	Note
Naphthalene	LU OEL	TWA	10 ppm, 50 mg/m ³	

LV

Sastāvdaļas	Bāze	Vērtība	Pārvaldības parametri	Piezīme
Naphthalene	LV OEL	AER 8 st	10 ppm, 50 mg/m ³	

NL

Bestanddelen	Basis	Waarde	Controleparameters	Opmerking
Naphthalene	NL MAC	TGG-8 uur	50 mg/m ³	
	NL MAC	TGG-15 min	80 mg/m ³	

PL

Składniki	Podstawa	Wartość	Parametry dotyczące kontroli	Uwaga
Kerosene C9-C16	PL NDS	NDS	100 mg/m ³	
	PL NDS	NDSch	300 mg/m ³	
Naphthalene	PL NDS	NDS	20 mg/m ³	
	PL NDS	NDSch	50 mg/m ³	

PT

Componentes	Bases	Valor	Parâmetros de controlo	Nota
Diesel fuel	PT OEL	VLE-MP	100 mg/m ³	P, A3,
Kerosene C9-C16	PT OEL	VLE-MP	200 mg/m ³	P, A3, (P),
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
(P) Aplicação restrita às condições nas quais são negligenciáveis as exposições a aerossóis
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/m ³	
	SE AFS	KTV	15 ppm, 80 mg/m ³	

SI

Komponente	Osnova	Vrednost	Parametri nadzora	Pripomba
Naphthalene	SI OEL	MV	10 ppm, 50 mg/m ³	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/m ³	K,

K Znamená, že faktor môže byť ľahko absorbovaný kožou. Niektoré faktory, ktoré ľahko 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, či 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/m ³	H,

H Besondere Gefahr der Hautresorption

BE

Bestanddelen	Basis	Waarde	Controleparameters	Opmerking
Kerosene C9-C16	BE OEL	TGG 8 hr	200 mg/m ³	D,
Naphthalene	BE OEL	TGG 8 hr	10 ppm, 53 mg/m ³	D,
	BE OEL	TGG 15 min	15 ppm, 80 mg/m ³	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/m3	
	CZ OEL	NPK-P	100 mg/m3	

DE

Inhaltsstoffe	Basis	Wert	Zu überwachende Parameter	Bemerkung
Alkanes, C14-C16	DE TRGS 900	AGW	600 mg/m3	Gruppen-AGW, AGS,

AGS Ausschuss für Gefahrstoffe
Gruppen-AGW Gruppengrenzwert für Kohlenwasserstoff-Lösemittelgemische

DK

Komponenter	Basis	Værdi	Kontrolparametre	Note
Kerosene C9-C16	DK OEL	GV	25 ppm, 180 mg/m3	
Naphthalene	DK OEL	GV	10 ppm, 50 mg/m3	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/m3	

ES

Componentes	Base	Valor	Parámetros de control	Nota
Naphthalene	ES VLA	VLA-ED	10 ppm, 53 mg/m3	vía dérmica,
	ES VLA	VLA-EC	15 ppm, 80 mg/m3	vía dérmica,

vía dérmica Vía dérmica

FI

Aineosat	Peruste	Arvo	Valvontaa koskevat muutujat	Nota
Naphthalene	FI OEL	HTP-arvot 8h	1 ppm, 5 mg/m3	*
	FI OEL	HTP-arvot 15 min	2 ppm, 10 mg/m3	*

* Lisätty tai muutettu tähän painokseen

FR

Composants	Base	Valeur	Paramètres de contrôle	Note
Naphthalene	FR VLE	VME	10 ppm, 50 mg/m3	C3, normal,

C3 Substances préoccupants pour l'homme en raison déffets cancérogènes possible
normal Valeurs limites indicatives

GR

Συστατικά	Βάση	Τιμή	Παράμετροι ελέγχου	Σημείωση
Naphthalene	GR OEL	TWA	10 ppm, 50 mg/m3	

HU

Komponensek	Bázis	Érték	Ellenőrzési paraméterek	Megjegyzés
Naphthalene	HU OEL	AK-érték	50 mg/m3	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 mindhámat)

IE

Ingredients	Basis	Value	Control parameters	Note
Kerosene C9-C16	IE OEL	OELV - 8 hrs (TWA)	100 mg/m3	
Naphthalene	IE OEL	OELV - 8 hrs (TWA)	10 ppm, 50 mg/m3	
	IE OEL	OELV - 15 min (STEL)	15 ppm, 75 mg/m3	

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.

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- | | | |
|--------------------------|---|---|
| Eye protection | : | Eye wash bottle with pure water. Tightly fitting safety goggles. Wear face-shield and protective suit for abnormal processing problems. |
| 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 | : | Avoid contact with skin, eyes and clothing. When using do not eat or drink. When using do not smoke. Wash hands before breaks and immediately after handling the product. |

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 % |

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10. STABILITY AND REACTIVITY

Chemical stability : This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure

Possibility of hazardous reactions

Conditions to avoid : Heat, flames and sparks.

Materials to avoid : May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

Other data : No decomposition if stored and applied as directed.

11. TOXICOLOGICAL INFORMATION**Diesel Reference Fuel T**

Acute oral toxicity : Acute toxicity estimate: > 5.100 mg/kg
Method: Calculation method

Diesel Reference Fuel T

Acute inhalation toxicity : This information is not available.

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Acute dermal toxicity : Acute toxicity estimate: > 2.000 mg/kg
Method: Calculation method

Diesel Reference Fuel T

Skin irritation : Irritating to skin.

Diesel Reference Fuel T

Eye irritation : No adverse effects expected.

Sensitization

Kerosene C9-C16 : Did not cause sensitization on laboratory animals.

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 d/wk
Lowest observable effect level: 435 mg/kg

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Kerosene C9-C16

Species: rabbit
 Application Route: Dermal
 Dose: 0, 200, 1000, 2000 mg/kg
 Exposure time: 28 day
 Number of exposures: 3 times/wk
 Lowest observable effect level: 1.000 mg/kg

Carcinogenicity

Diesel fuel

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

Kerosene C9-C16

Species: mouse
 Dose: 0, 28.5, 50, 100%
 Exposure time: 104 wks
 Number of exposures: 2, 4, or 7 times/wk
 Remarks: Weak dermal carcinogen

Naphthalene

Species: mouse
 Sex: male
 Dose: 10, 30 ppm
 Exposure time: 2 yrs

Species: mouse
 Sex: female
 Dose: 10, 30 ppm
 Exposure time: 2 yrs
 Remarks: increased incidence of alveolar/bronchiolar adenomas

Species: rat
 Sex: male
 Dose: 10, 30, 60 ppm
 Exposure time: 2 yrs

Species: rat
 Sex: female
 Dose: 10, 30, 60 ppm
 Exposure time: 2 yrs

Teratogenicity

Diesel fuel

: Species: rat
 Application Route: Inhalation
 Dose: 0, 100, 400 ppm
 Number of exposures: 6 h/d
 Test period: GD 6-15
 NOAEL Teratogenicity: 401.5 ppm
 NOAEL Maternal: 401.5 ppm

Kerosene C9-C16

Species: rat
 Application Route: Inhalation
 Dose: 0, 106, 364 ppm
 Exposure time: 6 hrs/d
 Test period: GD 6-15
 NOAEL Teratogenicity: 364 ppm

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Naphthalene

NOAEL Maternal: 364 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**

Kerosene C9-C16 : LC50: 20 mg/l
Exposure time: 96 HR
Species: Oncorhynchus mykiss (rainbow trout)

Distillates (petroleum),
Hydrotreated light Paraffinic > 5.000 mg/l
Exposure time: 96 HR
Species: Oncorhynchus mykiss (rainbow trout)

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

Toxicity to daphnia and other aquatic invertebrates.

Diesel fuel : EL50: 12,99 mg/l
Exposure time: 48 HR
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 202

Kerosene C9-C16 LC50: 21 mg/l
Exposure time: 48 HR
Species: Daphnia magna (Water flea)

Distillates (petroleum),
Hydrotreated light Paraffinic EC50: > 1.000 mg/l
Exposure time: 48 HR
Species: Daphnia magna (Water flea)

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

Toxicity to algae

Kerosene C9-C16 : EL50: 15 mg/l
Exposure time: 72 HR
Species: Selenastrum capricornutum (algae)

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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.

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.

USDOT

UN1202, DIESEL FUEL, 3, III

IMO / IMDG

UN1202, DIESEL FUEL, 3, III, MP (NAPHTHALENE), (47 °C)

IATA

UN1202, DIESEL FUEL, 3, III

ADR

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UN1202, DIESEL FUEL, 3, III

RID

UN1202, DIESEL FUEL, 3, III

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**15. REGULATORY INFORMATION****National legislation**

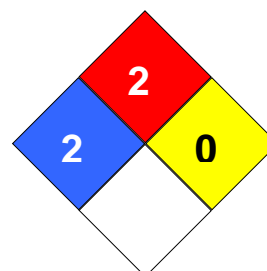
- Major Accident Hazard Legislation : 96/82/EC Update: 2003
Flammable.
6
Quantity 1: 5.000 t
Quantity 2: 50.000 t
- : 96/82/EC Update: 2003
Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams)
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Quantity 1: 2.500 t
Quantity 2: 25.000 t
- Water contaminating class (Germany) : WGK 3 highly water endangering

Notification status

- Europe REACH : On the inventory, or in compliance with the inventory
United States of America US.TSCA : On the inventory, or in compliance with the inventory
Canada NDSL : This product contains one or several components listed in the Canadian NDSL list.
- Australia AICS : Not 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 : Not in compliance with the inventory
China IECSC : Not in compliance with the inventory

16. OTHER INFORMATION

- NFPA Classification** : Health Hazard: 2
Fire Hazard: 2
Reactivity Hazard: 0



Diesel Reference Fuel T

Version 1.4

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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 above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

Key or legend to abbreviations and acronyms used in the safety data sheet			
ACGIH	American Conference of Government Industrial Hygienists	LOAEL	Lowest Observed Adverse Effect Level
AICS	Australia, Inventory of Chemical Substances	NFPA	National Fire Protection Agency
DSL	Canada, Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
NDSL	Canada, Non-Domestic Substances List	NTP	National Toxicology Program
CNS	Central Nervous System	NZIoC	New Zealand Inventory of Chemicals
CAS	Chemical Abstract Service	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration	NOEC	No Observed Effect Concentration
EC50	Effective Concentration 50%	OSHA	Occupational Safety & Health Administration
EINECS	European Inventory of Existing Chemical Substances	PEL	Permissible Exposure Limit
MAK	Germany Maximum Concentration Values	PICCS	Philippines Inventory of Commercial Chemical Substances
GHS	Globally Harmonized System	PRNT	Presumed Not Toxic
>=	Greater Than or Equal To	RCRA	Resource Conservation Recovery Act
IC50	Inhibition Concentration 50%	STEL	Short-term Exposure Limit
IARC	International Agency for Research on Cancer	SARA	Superfund Amendments and Reauthorization Act.
IECSC	Inventory of Existing Chemical Substances in China	TLV	Threshold Limit Value
ENCS	Japan, Inventory of Existing and New Chemical Substances	TWA	Time Weighted Average
KECI	Korea, Existing Chemical Inventory	TSCA	Toxic Substance Control Act
<=	Less Than or Equal To	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
LC50	Lethal Concentration 50%	WHMIS	Workplace Hazardous Materials Information System
LD50	Lethal Dose 50%		

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

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R10	Flammable.
R22	Harmful if swallowed.
R38	Irritating to skin.
R40	Limited evidence of a carcinogenic effect.
R45	May cause cancer.
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.

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.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause 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.