



## JCP Decolorizer Bottoms

Version 1.3

Revision Date 2020-01-06

According to Regulation (EC) No. 1907/2006, Regulation (EC) No. 2015/830

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1

##### Product information

Product Name : JCP Decolorizer Bottoms

#### 1.3

##### Details of the supplier of the safety data sheet

**Company** : Saudi Chevron Phillips Company  
10001 Six Pines Drive  
The Woodlands, TX 77380

**Local** : Chevron Phillips Chemicals International N.V.  
Airport Plaza (Stockholm Building)  
Leonardo Da Vincilaan 19  
1831 Diegem  
Belgium

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

#### 1.4

##### Emergency telephone:

##### Health:

866.442.9628 (North America)

1.832.813.4984 (International)

##### Transport:

CHEMTREC 800.424.9300 or 703.527.3887(int'l)

Asia: CHEMWATCH (+612 9186 1132) China: 0532 8388 9090

EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Mexico CHEMTREC 01-800-681-9531 (24 hours)

South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600

Argentina: +(54)-1159839431

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

### SECTION 2: Hazards identification

#### 2.1

##### Classification of the substance or mixture

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**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 toxicity - single exposure, Category 3, Central nervous system	H336: May cause drowsiness or dizziness.
Specific target organ 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.
Short-term (acute) aquatic hazard, Category 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Category 1	H410: Very toxic to aquatic life with long lasting effects.

**2.2****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. H410 Very toxic to aquatic life with long lasting effects.
Precautionary Statements	:	<b>Prevention:</b> P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. 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. <b>Response:</b> P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor. P331 Do NOT induce vomiting. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. P391 Collect spillage.

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Hazardous ingredients which must be listed on the label:

- 64742-88-7 Solvent naphtha (petroleum), medium aliph.
- 111-65-9 n-Octane
- 111-84-2 Nonane
- 91-20-3 Naphthalene

**SECTION 3: Composition/information on ingredients****3.1 - 3.2****Substance or Mixture**

Synonyms : Hydrocarbon Mixture  
DCBO

Molecular formula : UVCB

**Hazardous ingredients**

Chemical name	CAS-No. EC-No. Index No.	Classification (REGULATION (EC) No 1272/2008)	Concentration [wt%]
<b>Solvent naphtha (petroleum), medium aliph.</b>	<b>64742-88-7</b> <b>265-191-7</b> 649-405-00-X	STOT SE 3; H336 Skin Irrit. 2; H315 Aquatic Chronic 2; H411 Asp. Tox. 1; H304	100
Naphthalene	91-20-3 202-049-5 601-052-00-2	Flam. Sol. 2; H228 Acute Tox. 4; H302 Carc. 2; H351 STOT RE 1; H372 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	0,1 - 5
1,4-diethylbenzene	105-05-5 203-265-2	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	1 - 5
Decane	124-18-5 204-686-4	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Aquatic Chronic 3; H412 Asp. Tox. 1; H304	1 - 8
Nonane	111-84-2 203-913-4	Flam. Liq. 3; H226 Skin Irrit. 2; H315 STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Chronic 1; H410	1 - 15
n-Octane	111-65-9 203-892-1 601-009-00-8	Flam. Liq. 2; H225 Skin Irrit. 2; H315 STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Acute 1; H400	1 - 15

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Aquatic Chronic 1; H410

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

**SECTION 4: First aid measures****4.1****Description of first-aid measures**

- General advice : Move out of dangerous area. Show this material safety data sheet to the doctor in attendance. Material may produce a serious, potentially fatal pneumonia if swallowed or vomited.
- If inhaled : Consult a physician after significant exposure. 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. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

**SECTION 5: Firefighting measures**

- Flash point : 55°C (131°F)  
Method: ASTM D 93

**5.1****Extinguishing media**

- Suitable extinguishing media : Alcohol-resistant foam. Carbon dioxide (CO<sub>2</sub>). Dry chemical.
- Unsuitable extinguishing media : High volume water jet.

**5.2****Special hazards arising from the substance or mixture**

- Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.

**5.3****Advice for firefighters**

- Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting 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.

**SECTION 6: Accidental release measures****6.1****Personal precautions, protective equipment and emergency procedures**

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.

**6.2****Environmental precautions**

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.

**6.3****Methods and materials for containment and cleaning up**

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).

**6.4****Reference to other sections**

Reference to other sections : For personal protection see section 8. For disposal considerations see section 13.

**SECTION 7: Handling and storage****7.1****Precautions for safe handling  
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.

**7.2**

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**Conditions for safe storage, including any incompatibilities****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.

**SECTION 8: Exposure controls/personal protection****8.1****Control parameters****Ingredients with workplace control parameters****SK**

Zložky	Podstata	Hodnota	Kontrolné parametre	Poznámka
	SK OEL	NPEL priemerný	50 ppm, 300 mg/m <sup>3</sup>	1),
	SK OEL	NPEL krátkodobý	100 ppm, 600 mg/m <sup>3</sup>	1),
n-Octane	SK OEL	NPEL krátkodobý	300 ppm, 1.400 mg/m <sup>3</sup>	
	SK OEL	NPEL priemerný	200 ppm, 900 mg/m <sup>3</sup>	
Nonane	SK OEL	NPEL priemerný	150 ppm, 800 mg/m <sup>3</sup>	
	SK OEL	NPEL krátkodobý	200 ppm, 1.100 mg/m <sup>3</sup>	
Naphthalene	SK OEL	NPEL priemerný	10 ppm, 50 mg/m <sup>3</sup>	K,
	SK OEL	NPEL krátkodobý	15 ppm, 80 mg/m <sup>3</sup>	K,

- 1) Toxicita (karcinogenita) závisí od obsahu aromatických uhľovodíkov (benzén, toluén, xylén, etylbenzén, kumén). Limit je stanovený pre lakový benzín, ktorého obsah karcinogénneho benzénu nie je vyšší ako 0,2 obj. % (0,1 hmot. %).  
 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.

**SI**

Sestavine	Osnova	Vrednost	Parametri nadzora	Pripomba
n-Octane	SI OEL	MV	500 ppm, 2.400 mg/m <sup>3</sup>	V, 19,
Naphthalene	SI OEL	MV	10 ppm, 50 mg/m <sup>3</sup>	EU0,

EU0 Mejna vrednost, določena z Direktivo Komisije 91/322/EGS z dne 29. maja 1991 o določitvi indikativne mejne vrednosti v skladu z Direktivo Sveta 80/1107/EGS o varovanju delavcev pred tveganjem zaradi izpostavljenosti kemičnim, fizikalnim in biološkim dejavnikom pri delu (UL L, št. 177, z dne 5. julija 1991, str. 22).

**SE**

Bestandsdelar	Grundval	Värde	Kontrollparametrar	Anmärkning
	SE AFS	NGV	350 mg/m <sup>3</sup>	V, 19,
	SE AFS	KGV	500 mg/m <sup>3</sup>	V, 19,
	SE AFS	NGV	30 ppm, 175 mg/m <sup>3</sup>	V, H, 36,
	SE AFS	KGV	60 ppm, 350 mg/m <sup>3</sup>	V, H, 36,
n-Octane	SE AFS	NGV	200 ppm, 900 mg/m <sup>3</sup>	V,
	SE AFS	KGV	300 ppm, 1.400 mg/m <sup>3</sup>	V,
Nonane	SE AFS	NGV	350 mg/m <sup>3</sup>	V, 19,
	SE AFS	KGV	500 mg/m <sup>3</sup>	V, 19,
	SE AFS	NGV	150 ppm, 800 mg/m <sup>3</sup>	V,
	SE AFS	KGV	200 ppm, 1.100 mg/m <sup>3</sup>	V,
Decane	SE AFS	NGV	350 mg/m <sup>3</sup>	V, 19,
	SE AFS	KGV	500 mg/m <sup>3</sup>	V, 19,
Naphthalene	SE AFS	NGV	10 ppm, 50 mg/m <sup>3</sup>	V,
	SE AFS	KGV	15 ppm, 80 mg/m <sup>3</sup>	V,

- 19 Gränsvärdet avser kolväten i ångform dvs. upp till 12 kolatomer. Vid exponering för kolväten med mer än 12 kolatomer som förekommer i form av aerosol, partiklar eller vätskedroppar, tillämpas gränsvärdet för organiskt damm och dimma, 5 mg/m<sup>3</sup>. Gränsvärdet gäller inte för aromatfri lacknafta (< 2 viktprocent) som har eget gränsvärde.  
 36 Avser lacknafta som företrädesvis används som lösnings- och spädningsmedel för färg- och lackprodukter, dvs. petroleumnafta med sina huvudsakliga beståndsdelar i området C7 till C12 och med upp till 22 viktprocent aromater (upp till ca 20 volymprocent) och mindre än 0,1 viktprocent bensen. Jämför not 39 om petroleumnafta. Angivet ungefärligt värde uttryckt i ppm är beräknat på lacknafta med 22 viktprocent aromater.  
 H Ämnet kan lätt upptas genom huden.  
 V Vägledande korttidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas

**RS**

Компоненты	Основа	Величина	Параметры контроля	Заметка
Нафталин	RS OEL	GVI	10 ppm, 50 mg/m <sup>3</sup>	Carc. cat. 3, EU,

Carc. cat. 3 Chemical substances that cause concern about possible carcinogenic effects for humans

SDS Number:100000100237

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EU Substance mentioned in indicative exposure limit values in Directive 91/322 / EEC

**RO**

Componente	Sursă	Valoare	Parametri de control	Notă
n-Octane	RO OEL	TWA	322 ppm, 1.500 mg/m3	
	RO OEL	STEL	429 ppm, 2.000 mg/m3	
Naphthalene	RO OEL	TWA	10 ppm, 50 mg/m3	C2,

C2 susceptibil de a provoca apariția cancerului

**PT**

Componentes	Bases	Valor	Parâmetros de controlo	Nota
	PT OEL	VLE-MP	200 mg/m3	P, A3, (P), iritação do TRS, afeção do SNC,
n-Octane	PT OEL	VLE-MP	300 ppm,	irritação do TRS,
Nonane	PT OEL	VLE-MP	200 ppm,	afeção do SNC,
Naphthalene	PT OEL	VLE-MP	10 ppm,	(1), P, A3, iritação do TRS,
	PT DL 305/2007	oito horas	10 ppm, 50 mg/m3	

- (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.  
afeção do SNC afeção do sistema nervoso central  
irritação do trato respiratório superior  
TRS  
P Perigo de absorção cutânea

**PL**

Składniki	Podstawa	Wartość	Parametry dotyczące kontroli	Uwaga
	PL NDS	NDS	300 mg/m3	
	PL NDS	NDSch	900 mg/m3	
n-Octane	PL NDS	NDS	1.000 mg/m3	
	PL NDS	NDSch	1.800 mg/m3	
Naphthalene	PL NDS	NDS	20 mg/m3	
	PL NDS	NDSch	50 mg/m3	
1,4-diethylbenzene	PL NDS	NDS	100 mg/m3	
	PL NDS	NDSch	400 mg/m3	

**NO**

Komponenter	Grunnlag	Verdi	Kontrollparametrer	Nota
	FOR-2011-12-06-1358	GV	50 ppm, 275 mg/m3	
	FOR-2011-12-06-1358	GV	40 ppm, 275 mg/m3	
n-Octane	FOR-2011-12-06-1358	GV	150 ppm, 725 mg/m3	
Nonane	FOR-2011-12-06-1358	GV	100 ppm, 525 mg/m3	
Decane	FOR-2011-12-06-1358	GV	40 ppm, 275 mg/m3	
	FOR-2011-12-06-1358	GV	40 ppm, 275 mg/m3	
Naphthalene	FOR-2011-12-06-1358	GV	10 ppm, 50 mg/m3	E,

E EU har en veiledende grenseverdi for stoffet.

**NL**

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

**MT**

Components	Basis	Value	Control parameters	Note
Naphthalene	MT OEL	TWA	10 ppm, 50 mg/m3	

**MK**

Съставки	Основа	Стойност	Параметри на контрол	Бележка
n-Octane	MK OEL	MV	500 ppm, 2.400 mg/m3	
Naphthalene	MK OEL	MV	10 ppm, 50 mg/m3	EU,

EU European Union - limit (threshold) value set at the level of European Union

**LV**

Sastāvdaļas	Bāze	Vērtība	Pārvaldības parametri	Piezīme
n-Octane	LV OEL	AER 8 st	100 mg/m3	
	LV OEL	AER īslaicīgā	300 mg/m3	
Nonane	LV OEL	AER 8 st	100 mg/m3	

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	LV OEL	AER tslaicīgā	300 mg/m <sup>3</sup>	
Naphthalene	LV OEL	AER 8 st	10 ppm, 50 mg/m <sup>3</sup>	

## LU

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

## LT

Komponentai	Šaltinis	Vertė	Kontrolės parametrai	Pastaba
	LT OEL	IPRD	350 mg/m <sup>3</sup>	
	LT OEL	TPRD	500 mg/m <sup>3</sup>	
n-Octane	LT OEL	IPRD	200 ppm, 900 mg/m <sup>3</sup>	
	LT OEL	TPRD	300 ppm, 1.400 mg/m <sup>3</sup>	
Nonane	LT OEL	IPRD	150 ppm, 800 mg/m <sup>3</sup>	
	LT OEL	TPRD	200 ppm, 1.100 mg/m <sup>3</sup>	
Decane	LT OEL	IPRD	350 mg/m <sup>3</sup>	
	LT OEL	TPRD	500 mg/m <sup>3</sup>	
Naphthalene	LT OEL	IPRD	10 ppm, 50 mg/m <sup>3</sup>	

## IS

Komponenter	Grunnlag	Verdi	Kontrollparametrer	Nota
n-Octane	IS OEL	TWA	200 ppm, 935 mg/m <sup>3</sup>	
Nonane	IS OEL	TWA	200 ppm, 1.100 mg/m <sup>3</sup>	
Decane	IS OEL	TWA	45 ppm, 250 mg/m <sup>3</sup>	
Naphthalene	IS OEL	TWA	10 ppm, 50 mg/m <sup>3</sup>	

## IE

Components	Basis	Value	Control parameters	Note
n-Octane	IE OEL	OELV - 8 hrs (TWA)	300 ppm, 1.450 mg/m <sup>3</sup>	
Nonane	IE OEL	OELV - 8 hrs (TWA)	200 ppm, 1.050 mg/m <sup>3</sup>	
Naphthalene	IE OEL	OELV - 8 hrs (TWA)	10 ppm, 50 mg/m <sup>3</sup>	IOELV,
	IE OEL	OELV - 15 min (STEL)	15 ppm, 75 mg/m <sup>3</sup>	IOELV,

IOELV Indicative Occupational Exposure Limit Value

## HU

Komponensek	Bázis	Érték	Ellenőrzési paraméterek	Megjegyzés
n-Octane	HU OEL	AK-érték	2.350 mg/m <sup>3</sup>	i,
	HU OEL	CK-érték	9.400 mg/m <sup>3</sup>	i,
Naphthalene	HU OEL	AK-érték	50 mg/m <sup>3</sup>	b, EU1, i,
	HU OEL	CK-érték	400 mg/m <sup>3</sup>	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)

## HR

Sastojci	Temelj	Vrijednost	Nadzorni parametri	Bilješka
	HR OEL	GVI	100 ppm, 400 mg/m <sup>3</sup>	2, 2, T,
n-Octane	HR OEL	GVI	500 ppm, 2.350 mg/m <sup>3</sup>	IR-D,
Naphthalene	HR OEL	GVI	10 ppm, 50 mg/m <sup>3</sup>	3, Xn, N,
	HR OEL		15 ppm, 75 mg/m <sup>3</sup>	

2 Karc. kat. 2: tvari koje su vjerojatno karcinogene za ljude

3 Karc. kat. 3: tvari koje izazivaju zabrinutost zbog mogućeg karcinogenog djelovanja na ljude

IR-D iritacija dišnih organa

N Opasno za okoliš

T Otrovno

Xn Štetno za zdravlje

## GR

Συστατικά	Βάση	Τιμή	Παράμετροι ελέγχου	Σημείωση
n-Octane	GR OEL	TWA	500 ppm, 2.350 mg/m <sup>3</sup>	
	GR OEL	STEL	500 ppm, 2.350 mg/m <sup>3</sup>	
Naphthalene	GR OEL	TWA	10 ppm, 50 mg/m <sup>3</sup>	

## FR

Composants	Base	Valeur	Paramètres de contrôle	Note
solvant naphta aliphatique moyen (pétrole)	FR VLE	VME	1.000 mg/m <sup>3</sup>	(14), (5), (6), normal, Vapeur
	FR VLE	VLCT (VLE)	1.500 mg/m <sup>3</sup>	(14), (5), normal, Vapeur
n-Octane	FR VLE	VME	300 ppm, 1.450 mg/m <sup>3</sup>	normal,
Nonane	FR VLE	VME	200 ppm, 1.050 mg/m <sup>3</sup>	normal,
Decane	FR VLE	VME	1.000 mg/m <sup>3</sup>	(14), (5), (6), normal, Vapeur



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	FR VLE	VLCT (VLE)	1.500 mg/m3	(14), (5), normal, Vapeur
Naphthalene	FR VLE	VME	10 ppm, 50 mg/m3	C2, normal,

(14) Ces fractions d'hydrocarbures sont classées C1a et M1b sauf si elles contiennent moins de 1 % en poids de benzène  
(5) Les valeurs spécifiques fixées pour les hydrocarbures nommément désignés dans la liste restent valables simultanément  
(6) Une valeur d'objectif de 500 mg/m3 avait été prévue par la circulaire du 12 juillet 1993, elle devait être réexaminée en 1995 mais ne l'a pas été.  
C2 Substances préoccupantes en raison d'effets cancérogènes possibles  
normal Valeurs limites indicatives

## FI

Aineosat	Peruste	Arvo	Valvontaa koskevat muuttujat	Huomautus
	FI OEL	HTP-arvot 8h	200 mg/m3	
n-Octane	FI OEL	HTP-arvot 8h	300 ppm, 1.400 mg/m3	
	FI OEL	HTP-arvot 15 min	380 ppm, 1.800 mg/m3	
Nonane	FI OEL	HTP-arvot 8h	200 ppm, 1.100 mg/m3	
	FI OEL	HTP-arvot 15 min	250 ppm, 1.300 mg/m3	
Naphthalene	FI OEL	HTP-arvot 8h	1 ppm, 5 mg/m3	
	FI OEL	HTP-arvot 15 min	2 ppm, 10 mg/m3	

## ES

Componentes	Base	Valor	Parámetros de control	Nota
n-Octane	ES VLA	VLA-ED	300 ppm, 1.420 mg/m3	
Nonane	ES VLA	VLA-ED	200 ppm, 1.065 mg/m3	
Naphthalene	ES VLA	VLA-ED	10 ppm, 53 mg/m3	vía dérmica, VLI,
	ES VLA	VLA-EC	15 ppm, 80 mg/m3	vía dérmica, VLI,

vía dérmica Vía dérmica

VLI

Agente químico para el que la UE estableció en su día un valor límite indicativo. Todos estos agentes químicos figuran al menos en una de las directivas de valores límite indicativos publicadas hasta ahora (véase Anexo C. Bibliografía). Los Estados miembros deberán establecer un valor límite en sus respectivas legislaciones, en el plazo indicado en dichas directivas. Una vez adoptados, estos valores tienen la misma validez que el resto de los valores adoptados por el país.

## EE

Komponendid, osad	Alused	Väärtus	Kontrolliparameetrid	Märkused
	EE OEL	Piirnorm	350 mg/m3	11,
	EE OEL	Lühiajalise kokkupuute piirnorm	500 mg/m3	11,
	EE OEL	Piirnorm	5 mg/m3	
	EE OEL	Piirnorm	5 mg/m3	Aerosool
	EE OEL	Piirnorm	350 mg/m3	11, Aur
	EE OEL	Lühiajalise kokkupuute piirnorm	500 mg/m3	11, Aur
n-Octane	EE OEL	Piirnorm	200 ppm, 900 mg/m3	
	EE OEL	Lühiajalise kokkupuute piirnorm	300 ppm, 1.400 mg/m3	
Nonane	EE OEL	Piirnorm	150 ppm, 800 mg/m3	
	EE OEL	Lühiajalise kokkupuute piirnorm	200 ppm, 1.100 mg/m3	
Decane	EE OEL	Piirnorm	350 mg/m3	11,
	EE OEL	Lühiajalise kokkupuute piirnorm	500 mg/m3	11,
	EE OEL	Piirnorm	5 mg/m3	
	EE OEL	Piirnorm	5 mg/m3	
	EE OEL	Piirnorm	350 mg/m3	11,
	EE OEL	Lühiajalise kokkupuute piirnorm	500 mg/m3	11,
	EE OEL	Piirnorm	5 mg/m3	Aerosool
	EE OEL	Piirnorm	350 mg/m3	11, Aur
	EE OEL	Lühiajalise kokkupuute piirnorm	500 mg/m3	11, Aur
Naphthalene	EE OEL	Piirnorm	10 ppm, 50 mg/m3	

11 Süsivesinike piirnormid on arvutatud auru faasile. Üle 12 süsinikuaatomiga alifaatsetel süsivesinikel (tridekaanid ja kõrgemad) on 20 °C juures küllastussisaldus < 350 mg/m3. Aerosoolsete süsivesinike piirnorm on 5 mg/m3.

## DK

Komponenter	Basis	Værdi	Kontrolparametre	Note
n-Octane	DK OEL	GV	200 ppm, 935 mg/m3	
Nonane	DK OEL	GV	200 ppm, 1.050 mg/m3	
Decane	DK OEL	GV	45 ppm, 250 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.

## DE

Inhaltsstoffe	Grundlage	Wert	Zu überwachende Parameter	Bemerkung
n-Octane	DE TRGS 900	AGW	500 ppm, 2.400 mg/m3	DFG,

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Naphthalene	DE TRGS 900	AGW	0,1 ppm, 0,5 mg/m3	AGS, 11, H, Y, Dampf und Aerosole, einatembare Fraktion
-------------	-------------	-----	--------------------	---

- 11 Summe aus Dampf und Aerosolen.  
 AGS Ausschuss für Gefahrstoffe  
 DFG Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission)  
 H Hautresorptiv  
 Y Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden

**CZ**

Složky	Základ	Hodnota	Kontrolní parametry	Poznámka
Naphthalene	CZ OEL	PEL	50 mg/m3	
	CZ OEL	NPK-P	100 mg/m3	

**CY**

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

**CH**

Inhaltsstoffe	Grundlage	Wert	Zu überwachende Parameter	Bemerkung
Loesungsmittelnaphtha (Erdoel), mittlere aliphatische	CH SUVA	MAK-Wert	100 ppm, 525 mg/m3	OSHA,
n-Octane	CH SUVA	MAK-Wert	300 ppm, 1.400 mg/m3	NIOSH,
	CH SUVA	KZGW	600 ppm, 2.800 mg/m3	NIOSH,
Nonane	CH SUVA	MAK-Wert	200 ppm, 1.050 mg/m3	
Naphthalene	CH SUVA	MAK-Wert	10 ppm, 50 mg/m3	H, Carc.Cat.3, NIOSH, OSHA,

- Carc.Cat.3 Krebszerzeugende Stoffe Kategorie 3  
 H Vergiftung durch Hautresorption möglich; Bei Stoffen, welche die Haut leicht zu durchdringen vermögen, kann durch die zusätzliche Hautresorption die innere Belastung wesentlich höher werden als bei alleiniger Aufnahme durch die Atemwege.  
 NIOSH National Institute for Occupational Safety and Health  
 OSHA Occupational Safety and Health Administration

**BG**

Съставки	Основа	Стойност	Параметри на контрол	Бележка
n-Octane	BG OEL	TWA	1.450 mg/m3	
	BG OEL	STEL	1.800 mg/m3	
Naphthalene	BG OEL	TWA	50 mg/m3	-.
	BG OEL	STEL	75 mg/m3	-.

- Химични агенти, за които са определени гранични стойности във въздуха на работната среда за Европейската общност. Граничните стойности на тези химични агенти във въздуха на работната среда, определени с наредбата, са съобразени със съответните стойности, приети за Европейската общност, като могат да бъдат равни или по-ниски от тях.

**BE**

Bestanddelen	Basis	Waarde	Controleparameters	Opmerking
n-Octane	BE OEL	TGG 8 hr	300 ppm, 1.420 mg/m3	
	BE OEL	TGG 15 min	375 ppm, 1.775 mg/m3	
Nonane	BE OEL	TGG 8 hr	200 ppm, 1.065 mg/m3	
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.

**AT**

Inhaltsstoffe	Grundlage	Wert	Zu überwachende Parameter	Bemerkung
n-Octane	AT OEL	MAK-TMW	300 ppm, 1.400 mg/m3	
	AT OEL	MAK-KZW	1.200 ppm, 5.600 mg/m3	
Naphthalene	AT OEL	MAK-TMW	10 ppm, 50 mg/m3	H,

- H Besondere Gefahr der Hautresorption

**Biological exposure indices****SK**

Názov látky	Č. CAS	Kontrolné parametre	Doba odberu vzorky	Aktualizácia
Naphthalene	91-20-3	1-hydroxypyren: 5,66 µg/l (moč)	Koniec vystavenia alebo pracovnej zmeny	2015-04-08

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		1-hydroxypyren: 0.0259 nmol/l (moč)	Koniec vystavenia alebo pracovnej zmeny	2015-04-08
		1-hydroxypyren: 3.77 µg/g kreatinínu (moč)	Koniec vystavenia alebo pracovnej zmeny	2015-04-08
		1-hydroxypyren: 1.95 µmol/mol kreatinínu (moč)	Koniec vystavenia alebo pracovnej zmeny	2015-04-08

**GB**

Substance name	CAS-No.	Control parameters	Sampling time	Update
Naphthalene	91-20-3	1-hydroxypyrene: 4 µmol/mol creatinine (Urine)	After shift	2011-12-18

**8.2****Exposure controls  
Engineering measures**

Adequate ventilation to control airborne concentrations below the exposure guidelines/limits. Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

**Personal protective equipment**

- Respiratory protection : Wear a supplied-air NIOSH approved respirator unless ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure. Wear a NIOSH approved respirator that provides protection when working with this material if exposure to harmful levels of airborne material may occur, such as: Full-Face Air-Purifying Respirator for Organic Vapors, Dusts and Mists. Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.
- Hand protection : The suitability for a specific workplace should be discussed with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
- Eye protection : Eye wash bottle with pure water. Tightly fitting safety goggles.
- Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate: Flame retardant antistatic protective clothing. Workers should wear antistatic footwear.
- Hygiene measures : When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

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**SECTION 9: Physical and chemical properties****9.1****Information on basic physical and chemical properties****Appearance**

Form : Liquid  
Physical state : Liquid  
Color : Dark Brown

**Safety data**

Flash point : 55°C (131°F)  
Method: ASTM D 93

Lower explosion limit : No data available

Upper explosion limit : No data available

Molecular formula : UVCB

Molecular weight : Not applicable

Density : 0,69 - 0,85 g/cm3

**SECTION 10: Stability and reactivity****10.1**

**Reactivity** : Stable at normal ambient temperature and pressure.

**10.2**

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

**10.3****Possibility of hazardous reactions**

**Hazardous reactions** : Further information: No decomposition if stored and applied as directed.

Hazardous reactions: Vapors may form explosive mixture with air.

**10.4**

**Conditions to avoid** : Heat, flames and sparks.

**10.5**

**Materials to avoid** : No data available.

**10.6**

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

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**SECTION 11: Toxicological information****11.1****Information on toxicological effects****JCP Decolorizer Bottoms**

**Acute oral toxicity** : LD50 Oral: > 5.000 mg/kg  
 Species: Rat  
 Method: Acute toxicity estimate

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**Acute inhalation toxicity** : No data available

**Acute dermal toxicity**

Solvent naphtha (petroleum), medium aliph. : LD50: > 5.000 mg/kg  
 Species: Rabbit  
 Method: Expert judgment

1,4-diethylbenzene : LD50: > 5.000 mg/kg  
 Method: Expert judgment

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**Skin irritation** : May cause skin irritation in susceptible persons.

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**Eye irritation** : May cause irreversible eye damage.

**Sensitization**

Solvent naphtha (petroleum), medium aliph. : Did not cause sensitization on laboratory animals.

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

1,4-diethylbenzene : Classification: Did not cause sensitization on laboratory animals.

n-Octane : Did not cause sensitization on laboratory animals. Information given is based on data obtained from similar substances.

**Repeated dose toxicity**

Decane : Species: Rat  
 Application Route: Inhalation  
 Dose: 0, 540 ppm  
 Exposure time: 91 day  
 Number of exposures: 18 h/d, 7 d/wk  
 NOEL: 540 ppm

**Genotoxicity in vitro**

Naphthalene : Test Type: Ames test  
 Result: negative

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Test Type: Sister Chromatid Exchange Assay  
Result: negative

Test Type: Unscheduled DNA synthesis assay  
Result: negative

Decane

Test Type: Mammalian cell gene mutation assay  
Result: negative

Test Type: Ames test  
Result: negative

Nonane

Test Type: Ames test  
Result: negative

**Genotoxicity in vivo**

Naphthalene

: Test Type: Mouse micronucleus assay  
Result: negative

**Carcinogenicity**

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

Decane

Species: Mouse  
Dose: 4 mg in cyclohexane  
Exposure time: 60 wks  
Number of exposures: 3 times/wk  
Remarks: no increase incidence of tumors

**Developmental Toxicity**

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

**Aspiration toxicity**

Solvent naphtha (petroleum), medium aliph. : May be fatal if swallowed and enters airways.  
 1,4-diethylbenzene May be fatal if swallowed and enters airways.  
 Decane May be fatal if swallowed and enters airways.  
 Nonane May be fatal if swallowed and enters airways.  
 n-Octane May be fatal if swallowed and enters airways.

**CMR effects**

Naphthalene : Carcinogenicity: Limited evidence of carcinogenicity in animal studies

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Further information**

: Solvents may decrease the skin.

**SECTION 12: Ecological information****12.1****Toxicity****Ecotoxicity effects****Toxicity to fish**

Solvent naphtha (petroleum), medium aliph. : 2 mg/l  
 Exposure time: 96 h  
 Species: Oncorhynchus mykiss (rainbow trout)  
 semi-static test Test substance: yes  
 Method: OECD Test Guideline 203

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

1,4-diethylbenzene LC50: 1,8 mg/l  
 Exposure time: 96 h  
 Species: Oryzias latipes (Orange-red killifish)

**Toxicity to daphnia and other aquatic invertebrates**

Solvent naphtha (petroleum), medium aliph. : EL50: 1,4 mg/l  
 Exposure time: 48 h  
 Species: Daphnia magna (Water flea)  
 static test Test substance: yes  
 Method: OECD Test Guideline 202

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

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1,4-diethylbenzene                      EC50: 6,0 mg/l  
 Exposure time: 48 h  
 Species: Daphnia magna (Water flea)  
 Test substance: yes

Decane                                      EC50: 18 mg/l  
 Exposure time: 48 h  
 Species: Daphnia magna (Water flea)

n-Octane                                    EC50: 0,3 mg/l  
 Exposure time: 48 h  
 Species: Daphnia magna (Water flea)  
 Test substance: yes

**Toxicity to algae**

Solvent naphtha (petroleum), medium aliph.                      : NOEC:  
 Exposure time: 72 h  
 Species: Raphidocellus subcapitata (algae)  
 static test Analytical monitoring: yes  
 Test substance: yes  
 Method: OECD Test Guideline 201

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

1,4-diethylbenzene                      EC50: 29 mg/l  
 Exposure time: 72 h  
 Species: Selenastrum capricornutum (algae)  
 Test substance: yes

**Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)**

1,4-diethylbenzene                      : NOEC: 0,93 mg/l  
 Exposure time: 21 d  
 Species: Daphnia magna (Water flea)  
 Test substance: yes

**12.2****Persistence and degradability**

## Biodegradability

Solvent naphtha (petroleum), medium aliph.                      : This material is not expected to be readily biodegradable.

1,4-diethylbenzene                      : According to the results of tests of biodegradability this product is not readily biodegradable.

Decane                                      : This material is expected to be readily biodegradable.

n-Octane                                    : This material is expected to be readily biodegradable.

**12.3****Bioaccumulative potential**

Elimination information (persistence and degradability)



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**Bioaccumulation**

n-Octane : This material is not expected to bioaccumulate. This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

**12.4****Mobility in soil**

Mobility : No data available

**12.5****Results of PBT and vPvB assessment**

Results of PBT assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**12.6****Other adverse effects**

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

**Ecotoxicology Assessment****Short-term (acute) aquatic hazard**

Solvent naphtha (petroleum), medium aliph. : Toxic to aquatic life.

Naphthalene : Very toxic to aquatic life.

1,4-diethylbenzene : Very toxic to aquatic life.

n-Octane : Very toxic to aquatic life.

**Long-term (chronic) aquatic hazard**

Solvent naphtha (petroleum), medium aliph. : Toxic to aquatic life with long lasting effects.

Naphthalene : Very toxic to aquatic life with long lasting effects.

1,4-diethylbenzene : Very toxic to aquatic life with long lasting effects.

n-Octane : Very toxic to aquatic life with long lasting effects.

**SECTION 13: Disposal considerations****13.1****Waste treatment methods**

The information in this SDS 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.

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- 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.

**SECTION 14: Transport information****14.1 - 14.7****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 SDS and the bill of lading.

**US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)**

UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, III, MARINE POLLUTANT, (NONANES, OCTANES), RQ (NAPHTHALENE)

**IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)**

UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, III, (55°C), MARINE POLLUTANT, (NAPHTHALENE, 1,4-DIETHYL BENZENE)

**IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)**

UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, III

**ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))**

UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, III, (D/E), ENVIRONMENTALLY HAZARDOUS, (NAPHTHALENE, 1,4-DIETHYL BENZENE)

**RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))**

UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, III, ENVIRONMENTALLY HAZARDOUS, (NAPHTHALENE, 1,4-DIETHYL BENZENE)

**ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)**

UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, III, ENVIRONMENTALLY HAZARDOUS, (NAPHTHALENE, 1,4-DIETHYL BENZENE)

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

SDS Number:100000100237

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**SECTION 15: Regulatory information****15.1****Safety, health and environmental regulations/legislation specific for the substance or mixture  
National legislation**

Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

**15.2****Major Accident Hazard  
Legislation**

: ZEU\_SEVES3 Update:  
FLAMMABLE LIQUIDS  
P5c  
Quantity 1: 5.000 t  
Quantity 2: 50.000 t

: ZEU\_SEVES3 Update:  
ENVIRONMENTAL HAZARDS  
E1  
Quantity 1: 100 t  
Quantity 2: 200 t

: ZEU\_SEVES3 Update:  
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),(d) heavy fuel oils (e) alternative fuels serving the same purposes and with similar properties as regards flammability and environmental hazards as the products referred to in points (a) to (d)  
34  
Quantity 1: 2.500 t  
Quantity 2: 25.000 t

**Notification status**

Europe REACH	:	Not in compliance with the inventory
Switzerland CH INV	:	On the inventory, or in compliance with the inventory
United States of America (USA) TSCA	:	On or in compliance with the active portion of the TSCA 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	:	Not in compliance with the inventory
Korea KECI	:	Not 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
Taiwan TCSI	:	On the inventory, or in compliance with the inventory

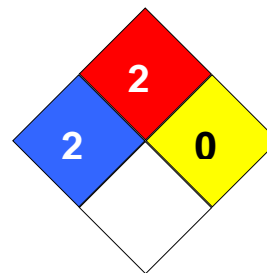
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**SECTION 16: Other information**

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

**Further information**

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

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

The information provided in this 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 Substances	LOAEL	Lowest Observed Adverse Effect 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

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			Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%		

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

H225	Highly flammable liquid and vapor.
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.
H319	Causes serious eye 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.
H412	Harmful to aquatic life with long lasting effects.