



## TrackTek® 100 ULE

Version 1.6

Revision Date 2011-05-25

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

#### Product information

Trade name : TrackTek® 100 ULE  
 Material : 1108537, 1108536, 1108535, 1062622, 1062256, 1062507,  
 1062508, 1062509

**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

##### Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 2	H225: Highly flammable liquid and vapor.
Skin irritation, Category 2	H315: Causes skin irritation.
Reproductive toxicity, Category 2	H361: Suspected of damaging fertility or the unborn child.
Specific target organ systemic toxicity - single exposure, Category 3	H335: May cause respiratory irritation.
	H336: May cause drowsiness or dizziness.

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Specific target organ systemic toxicity - repeated exposure, Category 2  
Aspiration hazard, Category 1

Acute aquatic toxicity, Category 1  
Chronic aquatic toxicity, Category 1

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

Highly flammable  
Harmful

Toxic to Reproduction Category 3  
Irritant  
Dangerous for the environment

H373: May cause damage to organs through prolonged or repeated exposure.  
H304: May be fatal if swallowed and enters airways.  
H400: Very toxic to aquatic life.  
H410: Very toxic to aquatic life with long lasting effects.

R11: Highly flammable.  
R65: Harmful: may cause lung damage if swallowed.  
R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.  
R63: Possible risk of harm to the unborn child.  
R38: Irritating to skin.  
R50/53: Very toxic 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

:

H225 Highly flammable liquid and vapor.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H361 Suspected of damaging fertility or the unborn child.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements

:

**Prevention:**  
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P240 Ground/bond container and receiving equipment.  
P243 Take precautionary measures against static discharge.  
P260 Do not breathe dust/fume/gas/mist/vapor/spray.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P273 Avoid release to the environment.  
**Response:**  
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.

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P331 Do NOT induce vomiting.  
 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 advice/ attention.

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

Hazardous ingredients which must be listed on the label:

- 540-84-1 2,2,4-Trimethylpentane (Isooctane)
- 108-88-3 Toluene

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Synonyms : Motor Fuel

Molecular formula : Mixture

**Mixtures****Hazardous ingredients**

Chemical Name	CAS-No. EINECS-No.	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [wt%]
2,2,4-Trimethylpentane (Isooctane)	540-84-1 208-759-1	F; R11 Xn; R65 Xi; R38 R67 N; R50-R53	Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Flam. Liq. 2; H225 Skin Irrit. 2; H315 STOT SE 3; H336	30 - 80
Isopentane	78-78-4 201-142-8	F+; R12 Xn; R65 R66 R67 N; R51-R53	Flam. Liq. 1; H224 STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Chronic 2; H411	5 - 30
Toluene	108-88-3 203-625-9	F; R11 Repr.Cat.3; R63 Xn; R48/20-R65 Xi; R38 R67 Xn; R65	Flam. Liq. 2; H225 Repr. 2; H361 Asp. Tox. 1; H304 STOT RE 2; H373 Skin Irrit. 2; H315 STOT SE 3; H336 Repr. 2; H361	10 - 30
Ethanol	64-17-5 200-578-6	F; R11	Flam. Liq. 2; H225	10 - 30
Isoalkanes 7-8	70024-92-9 274-273-1	Xn; R20 F; R11 N; R51-R53 Xn; R65	Asp. Tox. 1; H304 STOT SE 3; H336 Aquatic Chronic 2; H411	1 - 10

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R66  
Xi; R38Flam. Liq. 2; H225  
Skin Irrit. 2; H315

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. Do not leave the victim unattended.
- If inhaled : 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 : 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. 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 : < -37 °C (< -35 °F)
- Autoignition temperature : No data available
- Suitable extinguishing media : Alcohol-resistant foam. Carbon dioxide (CO<sub>2</sub>). 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.
- 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). Use

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only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.

Hazardous decomposition products : Carbon Dioxide. 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). Use only explosion-proof equipment. 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.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Ingredients with workplace control parameters**

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## Chevron Phillips Chemical Company LP

Ingredients	Basis	Value	Control parameters	Note
2,2,4-Trimethylpentane (Isooctane)	Manufacturer	TWA	300 ppm,	
Isoalkanes 7-8	Manufacturer	TWA	300 ppm,	

## IT

Componenti	Base	Valore	Parametri di controllo	Nota
Isopentane	IT OEL	TWA	667 ppm, 2.000 mg/m3	
Toluene	IT OEL	TWA	50 ppm, 192 mg/m3	Pelle,

Pelle La notazione "Pelle" attribuita ai valori limite di esposizione indica possibilità di assorbimento significa tivo attraverso la pelle.

## LT

Komponentai	Pagrindas, bazė	Vertė	Kontrolės parametrai	Pastaba
Toluene	LT OEL	IPRD	50 ppm, 192 mg/m3	O,
	LT OEL	TPRD	100 ppm, 384 mg/m3	O,
Isopentane	LT OEL	IPRD	1.000 ppm, 3.000 mg/m3	
Ethanol	LT OEL	IPRD	500 ppm, 1.000 mg/m3	
	LT OEL	TPRD	1.000 ppm, 1.900 mg/m3	

O Oksiduojanti

## LU

Composants	Base	Valeur	Paramètres de contrôle	Note
Toluene	LU OEL	TWA	50 ppm, 192 mg/m3	Peau,
	LU OEL	STEL	100 ppm, 384 mg/m3	Peau,
Isopentane	LU OEL	TWA	1.000 ppm, 3.000 mg/m3	

Peau Une pénétration cutanée s'ajoutant à l'inhalation réglementée est possible

## LV

Sastāvdaļas	Bāze	Vērtība	Pārvaldības parametri	Piezīme
Ethanol	LV OEL	AER 8 st	1.000 mg/m3	
Isopentane	LV OEL	AER 8 st	1.000 ppm, 3.000 mg/m3	
Toluene	LV OEL	AER 8 st	14 ppm, 50 mg/m3	Āda,
	LV OEL	AER īslaicīgā	40 ppm, 150 mg/m3	Āda,

Āda Āda

## NL

Bestanddelen	Basis	Waarde	Controleparameters	Opmerking
Ethanol	NL MAC	TGG-8 uur	260 mg/m3	
	NL MAC	TGG-15 min	1.900 mg/m3	
Isopentane	NL MAC	TGG-8 uur	1.800 mg/m3	
Toluene	NL MAC	TGG-8 uur	150 mg/m3	
	NL MAC	TGG-15 min	384 mg/m3	

## PL

Składniki	Podstawa	Wartość	Parametry dotyczące kontroli	Uwaga
Toluene	PL NDS	NDS	100 mg/m3	
	PL NDS	NDSch	200 mg/m3	
Isopentane	PL NDS	NDS	3.000 mg/m3	
Ethanol	PL NDS	NDS	1.900 mg/m3	

## PT

Componentes	Bases	Valor	Parâmetros de controlo	Nota
Ethanol	PT OEL	VLE-MP	1.000 ppm,	A4,
Isopentane	PT OEL	VLE-MP	600 ppm,	(1),
Toluene	PT OEL	VLE-MP	50 ppm,	(1), P, A4, IBE, ( ),

( ) Os valores ou características encontram-se propostos para alteração

(1) Abrangido por legislação nacional específica ou por legislação comunitária não transposta

A4 Agentes não classificáveis como carcinogénicos no Homem

IBE Identifica substâncias para as quais existem índices de exposição biológicos. Estes podem ser de dois tipos: IBE A referentes a pesticidas inibidores da acetilcolinesterase e IBE M indutores de metahemoglobina.

P Perigo de absorção cutânea

## SE

Beståndsdelar	Grundval	Värde	Kontrollparametrar	Anmärkning
Ethanol	SE AFS	NGV	500 ppm, 1.000 mg/m3	
	SE AFS	KTV	1.000 ppm, 1.900 mg/m3	
Isopentane	SE AFS	NGV	600 ppm, 1.800 mg/m3	
	SE AFS	KTV	750 ppm, 2.000 mg/m3	
Toluene	SE AFS	NGV	50 ppm, 200 mg/m3	H,
	SE AFS	KTV	100 ppm, 400 mg/m3	H,

H Ämnet kan lätt upptas genom huden.

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## SI

Komponente	Osnova	Vrednost	Parametri nadzora	Pripomba
Toluene	SI OEL	MV	50 ppm, 192 mg/m <sup>3</sup>	K, EU, BAT,
Isopentane	SI OEL	MV	1.000 ppm, 3.000 mg/m <sup>3</sup>	EU,
Ethanol	SI OEL	MV	1.000 ppm, 1.900 mg/m <sup>3</sup>	Y,

BAT Biološka mejna vrednost - določena je biološka mejna vrednost, ki pomeni opozorilno raven nevarne kemične snovi in njenih metabolitov v tkivih, telesnih tekočinah ali izdihanem zraku, ne glede na to, ali je nevarna kemična snov vnesena v organizem z vdihavanjem, zaužitjem ali skozi kožo

EU European Union - mejna vrednost določena na ravni Evropske unije

K Lastnost lažjega prehajanja snovi v organizem skozi kožo

Y Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in BAT vrednosti.

## SK

Súčasti	Podstata	Hodnota	Kontrolné parametre	Poznámka
Toluene	SK OEL	NPEL	50 ppm, 192 mg/m <sup>3</sup>	K,
	SK OEL	CEIL	384 mg/m <sup>3</sup>	K,
Isopentane	SK OEL	NPEL	1.000 ppm, 3.000 mg/m <sup>3</sup>	
Ethanol	SK OEL	NPEL	500 ppm, 960 mg/m <sup>3</sup>	Kategórie II,
	SK OEL	CEIL	1.920 mg/m <sup>3</sup>	Kategórie II,

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.

Kategórie II Faktory so systémovými účinkami. Trvanie piky: 15 minút priemerná hodnota. Frekvencia za zmenu: 4. Interval medzi pikmi: 1 hodina. Kategória II znamená, že NPEL môže byť krátkodobo prekročený maximálne 2- 8 krát za zmenu. Maximálne trvanie priemernej pikovej expozície nesmie presiahnuť 15 minút 4-krát za zmenu v intervale jednej hodiny medzi pikmi, pričom priemerný NPEL za 8-hodinovú zmenu musí byť dodržaný.

## AT

Inhaltsstoffe	Basis	Wert	Zu überwachende Parameter	Bemerkung
Ethanol	AT OEL	TMW	1.000 ppm, 1.900 mg/m <sup>3</sup>	
	AT OEL	KZW	2.000 ppm, 3.800 mg/m <sup>3</sup>	
Isopentane	AT OEL	TMW	600 ppm, 1.800 mg/m <sup>3</sup>	
	AT OEL	KZW	1.200 ppm, 3.600 mg/m <sup>3</sup>	
Toluene	AT OEL	TMW	50 ppm, 190 mg/m <sup>3</sup>	H,
	AT OEL	KZW	100 ppm, 380 mg/m <sup>3</sup>	H,

H Besondere Gefahr der Hautresorption

## BE

Bestanddelen	Basis	Waarde	Controleparameters	Opmerking
Ethanol	BE OEL	TGG 8 hr	1.000 ppm, 1.907 mg/m <sup>3</sup>	
Isopentane	BE OEL	TGG 8 hr	600 ppm, 1.800 mg/m <sup>3</sup>	
	BE OEL	TGG 15 min	750 ppm, 2.250 mg/m <sup>3</sup>	
Toluene	BE OEL	TGG 8 hr	50 ppm, 192 mg/m <sup>3</sup>	D,
	BE OEL	TGG 15 min	100 ppm, 384 mg/m <sup>3</sup>	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.

## CZ

Složky	Základ	Hodnota	Kontrolní parametry	Poznámka
Ethanol	CZ OEL	PEL	1.000 mg/m <sup>3</sup>	
	CZ OEL	NPK-P	3.000 mg/m <sup>3</sup>	
Isopentane	CZ OEL	PEL	3.000 mg/m <sup>3</sup>	*
	CZ OEL	NPK-P	4.500 mg/m <sup>3</sup>	*
Toluene	CZ OEL	PEL	200 mg/m <sup>3</sup>	D,
	CZ OEL	NPK-P	500 mg/m <sup>3</sup>	D,

\* u NPK-P brán zřetel na fyzikálně-chemické vlastnosti (například výbušnosti).

D Při expozici se významně uplatňuje pronikání látky kůží

## DE

Inhaltsstoffe	Basis	Wert	Zu überwachende Parameter	Bemerkung
Ethanol	DE TRGS 900	AGW	500 ppm, 960 mg/m <sup>3</sup>	DFG, Y,
Isopentane	DE TRGS 900	AGW	1.000 ppm, 3.000 mg/m <sup>3</sup>	DFG, EU,
Toluene	DE TRGS 900	AGW	50 ppm, 190 mg/m <sup>3</sup>	DFG, H, Y,

DFG Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission)

EU Europäische Union (Von der EU wurde ein Luftgrenzwert festgelegt: Abweichungen bei Wert und Spitzenbegrenzung sind möglich.)

H Hautresorptiv

Y Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden

## DK

Komponenter	Basis	Værdi	Kontrolparametre	Note
Ethanol	DK OEL	GV	1.000 ppm, 1.900 mg/m <sup>3</sup>	
Isopentane	DK OEL	GV	500 ppm, 1.500 mg/m <sup>3</sup>	E,
Toluene	DK OEL	GV	25 ppm, 94 mg/m <sup>3</sup>	H, E,

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- E At stoffet har en EF-grænseværdi  
H Betyder, at stoffet kan optages gennem huden.

## EE

Komponentid, osad	Alused	Väärtus	Kontrolliparameetrid	Märkused
Ethanol	EE OEL	Piirnorm	500 ppm, 1.000 mg/m <sup>3</sup>	
	EE OEL	Lühiajalise kokkupuute piirnorm	1.000 ppm, 1.900 mg/m <sup>3</sup>	
Isopentane	EE OEL	Piirnorm	1.000 ppm, 3.000 mg/m <sup>3</sup>	
Toluene	EE OEL	Piirnorm	50 ppm, 192 mg/m <sup>3</sup>	A,
	EE OEL	Lühiajalise kokkupuute piirnorm	100 ppm, 384 mg/m <sup>3</sup>	A,

A Naha kaudu kergesti absorbeeruvad ained

## ES

Componentes	Base	Valor	Parámetros de control	Nota
Toluene	ES VLA	VLA-ED	50 ppm, 192 mg/m <sup>3</sup>	vía dérmica, r, VLB, VLI,
	ES VLA	VLA-EC	100 ppm, 384 mg/m <sup>3</sup>	vía dérmica, r, VLB, VLI,
Isopentane	ES VLA	VLA-ED	1.000 ppm, 3.000 mg/m <sup>3</sup>	VLI,
Ethanol	ES VLA	VLA-ED	1.000 ppm, 1.910 mg/m <sup>3</sup>	s,

- r Esta sustancia tiene establecidas restricciones a la fabricación, la comercialización o el uso en los términos especificados en el "Reglamento CE 1907/2006 sobre Registro, Evaluación, Autorización y Restricción de sustancias y preparados químicos" (REACH) de 18 de diciembre de 2006 (DOUE L 369 de 30 de diciembre de 2006). Las restricciones de una sustancia pueden aplicarse a todos los usos o sólo a usos concretos. El anexo XVII del Reglamento REACH contiene la lista de todas las sustancias restringidas y es
- s Esta sustancia tiene prohibida total o parcialmente su comercialización y uso como fitosanitario y/o como biocida. Para una información detallada acerca de las prohibiciones consúltese: Base de datos de productos biocidas: <http://www.msc.es/ciudadanos/saludAmbLaboral/prodQuimicos/sustPreparatorias/biocidas/frmRegistroPlaguicidas.jsp> Base de datos de productos fitosanitarios: <http://www.mapa.es/es/agricultura/pags/fitos/registro/menu.asp>
- vía dérmica  
Via dérmica  
VLB Agente químico que tiene Valor Límite Biológico específico en este documento.  
VLI Agente químico que tiene establecido un valor límite indicativo por la UE.

## FI

Aineosat	Peruste	Arvo	Valvontaa koskevat muuttujat	Nota
2,2,4-Trimethylpentane (Isooctane)	FI OEL	HTP-arvot 8h	300 ppm, 1.400 mg/m <sup>3</sup>	
	FI OEL	HTP-arvot 15 min	380 ppm, 1.800 mg/m <sup>3</sup>	
Toluene	FI OEL	HTP-arvot 8h	25 ppm, 81 mg/m <sup>3</sup>	iho, *
	FI OEL	HTP-arvot 15 min	100 ppm, 380 mg/m <sup>3</sup>	iho, *
Isopentane	FI OEL	HTP-arvot 8h	500 ppm, 1.500 mg/m <sup>3</sup>	
	FI OEL	HTP-arvot 15 min	630 ppm, 1.900 mg/m <sup>3</sup>	
Ethanol	FI OEL	HTP-arvot 8h	1.000 ppm, 1.900 mg/m <sup>3</sup>	
	FI OEL	HTP-arvot 15 min	1.300 ppm, 2.500 mg/m <sup>3</sup>	

\* Lisätty tai muutettu tähän painokseen

iho Ihon läpi imeytyvien aineiden elimistöön joutuvia määriä ja elimistöön joutuneesta aineesta aiheutuvaa vaaraa ei voida näin ollen arvioida pelkästään ilmapitoisuuksien avulla. Tämän vuoksi näiden aineiden HTP-arvojen yhteyteen on huomautussarakkeeseen otettu ihon läpi imeytymisen osoittamiseksi merkintä 'iho'. Monet aineet, varsinkin voimakkaat hapot tai emäkset, voivat aiheuttaa iholle jouduttuaan ihon ärsytyntymistä tai syöpymistä.

## FR

Composants	Base	Valeur	Paramètres de contrôle	Note
Toluene	FR VLE	VME	50 ppm, 192 mg/m <sup>3</sup>	*, R3, zwart/vet,
	FR VLE	VLCT (VLE)	100 ppm, 384 mg/m <sup>3</sup>	*, R3, zwart/vet,
Isopentane	FR VLE	VME	1.000 ppm, 3.000 mg/m <sup>3</sup>	blauw/vet,
Ethanol	FR VLE	VME	1.000 ppm, 1.900 mg/m <sup>3</sup>	normal,
	FR VLE	VLCT (VLE)	5.000 ppm, 9.500 mg/m <sup>3</sup>	normal,

- \* Risque de pénétration percutanée  
blauw/vet Valeurs limites réglementaires indicatives  
normal Valeurs limites indicatives  
R3 Substances préoccupants pour l'homme en raison d'effets toxiques pour la reproduction possibles  
zwart/vet Valeurs limites réglementaires contraignantes

## GB

Ingredients	Basis	Value	Control parameters	Note
Toluene	GB EH40	TWA	50 ppm, 191 mg/m <sup>3</sup>	Sk,
	GB EH40	STEL	100 ppm, 384 mg/m <sup>3</sup>	Sk,
Isopentane	GB EH40	TWA	600 ppm, 1.800 mg/m <sup>3</sup>	2,
Ethanol	GB EH40	TWA	1.000 ppm, 1.920 mg/m <sup>3</sup>	2,

- 2 Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used  
Sk Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.

## GR

Συστατικά	Βάση	Τιμή	Παράμετροι ελέγχου	Σημείωση
Ethanol	GR OEL	TWA	1.000 ppm, 1.900 mg/m <sup>3</sup>	

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Isopentane	GR OEL	TWA	1.000 ppm, 2.950 mg/m3	
Toluene	GR OEL	TWA	50 ppm, 192 mg/m3	Δ,
	GR OEL	STEL	100 ppm, 384 mg/m3	Δ,

Δ Η ένδειξη "δέρμα" (Δ), η οποία επισημαίνει ορισμένους χημικούς παράγοντες του πίνακα της παρ. 1 του άρθρου 3, υπονοεί την πιθανή συμβολή στην συνολική έκθεση του εργαζόμενου και της ποσότητας αυτών των χημικών παραγόντων που απορροφάται διαμέσου του δέρματος κατά την άμεση επαφή μαζί τους.

**HU**

Komponensek	Bázis	Érték	Ellenőrzési paraméterek	Megjegyzés
Toluene	HU OEL	AK-érték	190 mg/m3	b, EU2, i,
	HU OEL	CK-érték	380 mg/m3	b, EU2, i,
Isopentane	HU OEL	AK-érték	3.000 mg/m3	EU2,
Ethanol	HU OEL	AK-érték	1.900 mg/m3	
	HU OEL	CK-érték	7.600 mg/m3	

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

EU2 96/94/EK irányelvben közölt érték

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

**IE**

Ingredients	Basis	Value	Control parameters	Note
Ethanol	IE OEL	OELV - 8 hrs (TWA)	1.000 ppm, 1.900 mg/m3	
Isopentane	IE OEL	OELV - 8 hrs (TWA)	1.000 ppm, 3.000 mg/m3	IOELV,
	IE OEL	OELV - 15 min (STEL)	750 ppm, 2.250 mg/m3	IOELV,
Toluene	IE OEL	OELV - 8 hrs (TWA)	50 ppm, 188 mg/m3	Sk, IOELV,
	IE OEL	OELV - 15 min (STEL)	100 ppm, 560 mg/m3	Sk, IOELV,

IOELV Indicative Occupational Exposure Limit Value

Sk Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body

**DNEL**

Toluene

: End Use: Workers  
Routes of exposure: Inhalation, Eye contact  
Potential health effects: Acute effects  
Value: 384 mg/m3

End Use: Workers  
Routes of exposure: Skin contact  
Potential health effects: Chronic effects  
Value: 384 mg/m3

**Personal protective equipment**

- Respiratory protection : In the case of vapor formation use a respirator with an approved filter. Use NIOSH approved respiratory protection.
- 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. 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 : When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

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

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**Appearance**

Form : Liquid  
Physical state : Liquid  
Color : Various  
Odor : Strong gasoline

**Safety data**

Flash point : < -37 °C (< -35 °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

Freezing point : -94,44 °C (-137,99 °F)

Pour point : No data available

Boiling point/boiling range : 46 - 116 °C (115 - 241 °F)

Vapor pressure : 6,70 PSI  
at 38 °C (100 °F)

Relative density : 7,45, 16 °C(61 °F)

Density : 5,97 L/G

Water solubility : The ethanol component of this fuel is soluble in water.

Partition coefficient: n-  
octanol/water : No data available

Viscosity, kinematic : No data available

Relative vapor density : 3,2  
(Air = 1.0)

Evaporation rate : > 1

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 : No decomposition if stored and applied as directed.

**11. TOXICOLOGICAL INFORMATION****TrackTek® 100 ULE  
Acute oral toxicity**

: Acute toxicity estimate: > 5.000 mg/kg  
Method: Calculation method

**TrackTek® 100 ULE  
Acute inhalation toxicity**

: Acute toxicity estimate: > 20 mg/l  
Method: Calculation method

**TrackTek® 100 ULE  
Acute dermal toxicity**

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

**TrackTek® 100 ULE  
Skin irritation**

: May cause skin irritation in susceptible persons.

**TrackTek® 100 ULE  
Eye irritation**

: May cause irreversible eye damage.

**TrackTek® 100 ULE  
Sensitization**

: No adverse effects expected.

**Repeated dose toxicity**

2,2,4-Trimethylpentane  
(Isooctane)

: Species: rat, Male and female  
Sex: Male and female  
Application Route: Inhalation  
Dose: 0, 668, 2220, 6646 ppm  
Exposure time: 13 weeks  
Number of exposures: 6 hr/day 5 d/wk  
NOEL: 8,117 mg/l 2220 ppm  
Method: OECD Guideline 413  
Information given is based on data obtained from similar substances.

Isopentane

Species: rat  
Application Route: Inhalation  
Dose: 1, 1000, 4500 ppm  
Exposure time: 13 wk  
Number of exposures: 6 h/d, 5 d/wk  
NOEL: 2250 ppm

Toluene

Species: rat  
Application Route: Inhalation  
Dose: 0, 100, 625, 1250, 3000 ppm  
Exposure time: 15 wk  
Number of exposures: 6.5 h/d, 5 d/wk  
NOEL: 625 ppm

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Ethanol

Species: mouse  
Application Route: Inhalation  
Dose: 0, 100, 625, 1250, 3000 ppm  
Exposure time: 14 wk  
Number of exposures: 6.5 h/d, 5 d/wk  
NOEL: 100 ppm

Ethanol

Species: rat  
Application Route: Oral diet  
Dose: 5%  
Exposure time: 13 wk  
Number of exposures: in drinking water  
NOEL: < 5%  
Lowest observable effect level: 5%  
Target Organs: Liver

Isoalkanes 7-8

Species: rat  
Application Route: Inhalation  
Dose: 0, 385, 1180 ppm  
Exposure time: 12 wk  
Number of exposures: 6 hr/d, 5 d/wk  
NOEL: > 1180 ppm  
Target Organs: Kidney

**Carcinogenicity**

Toluene

: Species: rat  
Dose: 0, 600, 1200 ppm  
Exposure time: 2 yrs  
Number of exposures: 6.5 h/d, 5 d/wk  
Remarks: No evidence of carcinogenicity

Species: mouse  
Dose: 0, 600, 1200 ppm  
Exposure time: 2 yrs  
Number of exposures: 6.5 h/d, 5 d/wk  
Remarks: No evidence of carcinogenicity

Ethanol

Species: mouse  
Sex: male  
Dose: 2.5, 5%  
Exposure time: 2 yrs  
Number of exposures: in drinking water  
Remarks: Increase in liver tumors

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Species: mouse  
 Sex: female  
 Dose: 2.5, 5%  
 Exposure time: 2 yrs  
 Number of exposures: in drinking water  
 Remarks: no increase in tumors

Species: rat  
 Dose: 5%  
 Exposure time: 30 mo  
 Number of exposures: in drinking water  
 Remarks: increase number of liver, pituitary, adrenal, and pancreatic tumors

**Reproductive toxicity**

2,2,4-Trimethylpentane  
 (Isooctane)

: Species: rat  
 Sex: male and female  
 Application Route: Inhalation  
 Dose: 0, 900, 3000, 9000 ppm  
 Number of exposures: 6 h/d 5 d/wk  
 Method: OECD Test Guideline 416  
 NOAEL Parent: 3000 ppm  
 NOAEL F1: 3000 ppm  
 NOAEL F2: 3000 ppm

Toluene

Species: rat  
 Application Route: Inhalation  
 Dose: 0, 100, 500, 2000 ppm  
 Test period: 95 d  
 NOAEL Parent: 2000 ppm

**Teratogenicity**

2,2,4-Trimethylpentane  
 (Isooctane)

: Species: rat  
 Application Route: Inhalation  
 Dose: 0, 400, 1200 ppm  
 Number of exposures: 6h/d  
 Test period: GD6-15  
 NOAEL Teratogenicity: 1200 ppm  
 NOAEL Maternal: 1200 ppm

Species: rat  
 Application Route: Inhalation  
 Dose: 0, 900, 3000, 9000 ppm  
 Number of exposures: 6h/d  
 Test period: GD6-15  
 Method: OECD Guideline 414  
 NOAEL Teratogenicity: 9000 ppm  
 NOAEL Maternal: 3000 ppm

Toluene

Species: rat  
 Application Route: Inhalation  
 Dose: 0, 100, 500, 2000 ppm  
 Test period: 95 d  
 NOAEL Teratogenicity: 400-750 ppm

Ethanol

Species: mouse  
 Application Route: oral gavage

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Dose: 17, 25, 30 %  
NOAEL Teratogenicity: 17%

**TrackTek® 100 ULE  
Aspiration toxicity**

: May be fatal if swallowed and enters airways.  
Substances known to cause human aspiration toxicity hazards or to be regarded as if they cause human aspiration toxicity hazard.

**CMR effects**

2,2,4-Trimethylpentane  
(Isooctane)

: Carcinogenicity: Not available  
Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.  
Teratogenicity: Animal testing did not show any effects on fetal development.  
Reproductive toxicity: Animal testing did not show any effects on fertility.

**TrackTek® 100 ULE  
Further information**

: Solvents may degrease the skin.

**12. ECOLOGICAL INFORMATION****Toxicity to fish**

2,2,4-Trimethylpentane  
(Isooctane)

: LC50: 0,11 mg/l  
Exposure time: 96 HR  
Species: Oncorhynchus mykiss (rainbow trout)  
semi-static test Method: OECD Test Guideline 203  
Information given is based on data obtained from similar substances.

Isopentane

LC50: 3,1 mg/l  
Exposure time: 96 HR  
Species: Oncorhynchus mykiss (rainbow trout)

Toluene

LC50: 18 - 36 mg/l  
Exposure time: 96 HR  
Species: Pimephales promelas (fathead minnow)

Ethanol

LC50: 13.480 mg/l  
Exposure time: 96 HR  
Species: Pimephales promelas (fathead minnow)

Isoalkanes 7-8

LC50: 5,4 mg/l  
Exposure time: 96 HR  
Species: Oncorhynchus mykiss (rainbow trout)

**Toxicity to daphnia and other aquatic invertebrates.**

2,2,4-Trimethylpentane  
(Isooctane)

: EC50: 0,4 mg/l  
Exposure time: 48 HR  
Species: Daphnia magna (Water flea)  
static test Information given is based on data obtained from similar substances.

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Isopentane EC50: 2,3 mg/l  
Exposure time: 48 HR  
Species: Daphnia magna (Water flea)

Toluene EC50: 3,78 mg/l  
Exposure time: 48 HR  
Species: Daphnia magna (Water flea)

Ethanol LC50: 12.340 mg/l  
Exposure time: 48 HR  
Species: Daphnia magna (Water flea)

Isoalkanes 7-8 7,4 mg/l  
Exposure time: 48 HR  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 202

**Toxicity to algae**

2,2,4-Trimethylpentane (Isooctane) : EL50: 2,943 mg/l  
Exposure time: 72 HR  
Method: QSAR modeled data

Toluene EC50: 134 mg/l  
Exposure time: 72 HR  
Species: Chlamydomonas angulosa (Green algae)

Ethanol EC50: 1.000 mg/l  
Exposure time: 72 HR  
Species: Chlorella vulgaris (Fresh water algae)

Isoalkanes 7-8 EL50: 29,0 mg/l  
Exposure time: 72 HR  
Species: Raphidocellus subcapitata (algae)  
Growth inhibition Method: OECD Test Guideline 201

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

2,2,4-Trimethylpentane (Isooctane) : NOEC: 0,17 mg/l  
Exposure time: 21 D  
Species: Daphnia magna (Water flea)

**Elimination information (persistence and degradability)****Bioaccumulation**

2,2,4-Trimethylpentane (Isooctane) : Bioconcentration factor (BCF): 231  
Method: Estimated based on individual component values.

Isopentane : Accumulation in aquatic organisms is unlikely.

**Biodegradability** : Expected to be biodegradable

**Further information on ecology**

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**Results of PBT assessment**

2,2,4-Trimethylpentane (Isooctane) : Non-classified PBT substance, Non-classified vPvB substance

**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.

**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**

UN3475, ETHANOL AND GASOLINE MIXTURE, 3, II

**IMO / IMDG**

UN3475, ETHANOL AND GASOLINE MIXTURE, 3, II, MP (2,2,4-TRIMETHYLPENTANE (ISOOCTANE), TOLUENE), (< -37 °C)

**IATA**

UN3475, ETHANOL AND GASOLINE MIXTURE, 3, II

**ADR**

UN3475, ETHANOL AND GASOLINE MIXTURE, 3, II

**RID**

UN3475, ETHANOL AND GASOLINE MIXTURE, 3, II

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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  
 Highly flammable  
 7b  
 Quantity 1: 5.000 t  
 Quantity 2: 50.000 t

: 96/82/EC Update: 2003  
 Dangerous for the environment  
 9a  
 Quantity 1: 100 t  
 Quantity 2: 200 t

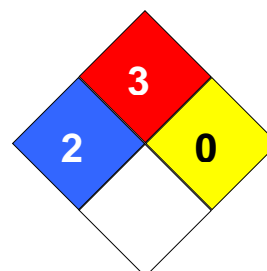
Water contaminating class (Germany) : WGK 3 highly water endangering

**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 : On the inventory, or in compliance with the inventory  
 Australia AICS : On the inventory, or in compliance with the inventory  
 New Zealand NZIoC : Not 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: 3  
 Reactivity Hazard: 0

**Further information**

Legacy MSDS Number : CPC00143

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.

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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	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**

R11	Highly flammable.
R12	Extremely flammable.
R20	Harmful by inhalation.
R38	Irritating to skin.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R50	Very toxic to aquatic organisms.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51	Toxic to aquatic organisms.
R53	May cause long-term adverse effects in the aquatic environment.
R63	Possible risk of harm to the unborn child.
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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H224	Extremely flammable liquid and vapor.
H225	Highly flammable liquid and vapor.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.
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.