



## SOLTROL® 10 Isoparaffin Solvent

Version 1.14

Revision Date 2023-05-19

According to Regulation (EC) No. 1907/2006, Regulation (EC) No. 2020/878

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

#### 1.1 Product identifier

##### Product information

Product Name : SOLTROL® 10 Isoparaffin Solvent  
 Material : 1089830, 1017316, 1017315, 1017318, 1017317, 1017319,  
 1017320, 1017321, 1017314

##### EC-No.Registration number

Chemical name	CAS-No. EC-No. Index No.	Legal Entity Registration number
Hydrocarbons C7-C8, isoalkanes, < 2% aromatics		Chevron Phillips Chemicals International NV 01-2120769768-30-0000
Hydrocarbons C7-C8, isoalkanes, < 2% aromatics		Chevron Phillips Chemical Company LP 01-2120769768-30-0001

#### 1.2

##### Relevant identified uses of the substance or mixture and uses advised against

Relevant Identified Uses : Use as a fuel - industrial  
 Supported : Use as a fuel – professional

#### 1.3

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

**Company** : Chevron Phillips Chemical Company LP  
 Specialty Chemicals  
 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

**SOLTROL® 10 Isoparaffin Solvent**

Version 1.14

Revision Date 2023-05-19

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

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

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

Austria: VIZ +43 1 406 43 43 (24 hours/day, 7 days/week)

Belgium: 070 245 245 (24 hours/day, 7 days/week)

Bulgaria: +359 2 9154 233

Croatia: +3851 2348 342 (24 hours/day, 7 days/week)

Cyprus: 1401

Czech Republic: Toxicological Information Center +420 224 919 293, +420 224 915 402

Denmark: Danish Poison Center (Giftlinjen): +45 8212 1212

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

Finland: 0800 147 111 09 471 977 (24 hours/day)

France: ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week)

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

Greece: (0030) 2107793777 (24 hours/day, 7 days/week)

Hungary: +36-80-201-199 (24 hours/day, 7 days/week)

Iceland: 543 2222 (24 hours/day, 7 days/week)

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

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

Latvia: State Fire and Rescue Service, phone number: 112; Toxicology and Sepsis Clinic

Poisoning and Drug Information Center, Hipokrāta 2, Riga, Latvia, LV-1038, phone number +371 67042473. (24 hours.)

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

Lithuania: +370 (85) 2362052

Luxembourg: (+352) 8002 5500 (24 hours/day, 7 days/week)

Malta: +356 2395 2000

The Netherlands: NVIC: +31 (0)88 755 8000

Norway: 22 59 13 00 (24 hours/day, 7 days/week)

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

Portugal: CIAV phone number: +351 800 250 250

Romania: +40213183606

Slovakia: +421 2 5477 4166

Slovenia: Phone number: 112

Spain: National Emergency Telephone Number of Spanish Poison Centre: +34 91 562 04 20 (24 hours/day, 7 days/week)

Sweden: 112 – ask for Poisons Information

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**

SDS Number:100000067719

2/33

**SOLTROL® 10 Isoparaffin Solvent**


Version 1.14

Revision Date 2023-05-19

**REGULATION (EC) No 1272/2008**

Flammable liquids, Category 2	H225: Highly flammable liquid and vapor.
Skin irritation, Category 2	H315: Causes skin irritation.
Specific target organ toxicity - single exposure, Category 3, Central nervous system	H336: May cause drowsiness or dizziness.
Aspiration hazard, Category 1	H304: May be fatal if swallowed and enters airways.
Long-term (chronic) aquatic hazard, Category 2	H411: Toxic to aquatic life with long lasting effects.

**2.2****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. H336 May cause drowsiness or dizziness. H411 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. P273 Avoid release to the environment. <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.

Hazardous ingredients which must be listed on the label:

- 70024-92-9 Isoalkanes C7-8

**2.3****Other hazards**

Results of PBT and vPvB 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.
------------------------------------	---	--

**SOLTROL® 10 Isoparaffin Solvent**

Version 1.14

Revision Date 2023-05-19

Endocrine disrupting properties : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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

Synonyms : Not Established

Molecular formula : UVCB

**Hazardous ingredients**

Chemical name	CAS-No. EC-No. Index No.	Classification (REGULATION (EC) No 1272/2008)	Concentration [wt%]	Specific Conc. Limits, M-factors and ATEs
Hydrocarbons C7-C8, isoalkanes, < 2% aromatics		Flam. Liq. 2; H225 Skin Irrit. 2; H315 STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Chronic 2; H411	100	

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 : Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

**4.2 Most important symptoms and effects, both acute and delayed****Notes to physician**

Symptoms : No data available.

Risks : No data available.

**4.3 Indication of any immediate medical attention and special treatment needed**

SDS Number:100000067719

4/33

**SOLTROL® 10 Isoparaffin Solvent**

Version 1.14

Revision Date 2023-05-19

Treatment : No data available.

**SECTION 5: Firefighting measures**Flash point : -11°C (12°F)  
Method: Tag closed cup

Autoignition temperature : 420°C (788°F)

**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.

Fire and explosion protection : Do not spray on a naked flame or any 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.

Hazardous decomposition products : Carbon Dioxide. Carbon oxides.

**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**

**SOLTROL® 10 Isoparaffin Solvent**

Version 1.14

Revision Date 2023-05-19

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 a naked flame or any 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.

**7.2****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.

**7.3****Specific End Use**

Use : For additional details, see the Exposure Scenario in the Annex portion

**SECTION 8: Exposure controls/personal protection****8.1**

**SOLTROL® 10 Isoparaffin Solvent**

Version 1.14

Revision Date 2023-05-19

**Control parameters  
Ingredients with workplace control parameters****Chevron Phillips Chemical Company LP**

Components	Basis	Value	Control parameters	Note
Hydrocarbons C7-C8, isoalkanes, < 2% aromatics	Manufacturer	TWA	300 ppm,	

**SK**

Zložky	Podstata	Hodnota	Kontrolné parametre	Poznámka
2,2,4-Trimethylpentane (Isooctane)	SK OEL	NPEL krátkodobý	300 ppm, 1.400 mg/m3	
	SK OEL	NPEL priemerný	200 ppm, 900 mg/m3	

**SI**

Sestavine	Osnova	Vrednost	Parametri nadzora	Pripomba
Isoalkanes C7-8	SI OEL	MV	700 mg/m3	
2,2,4-Trimethylpentane (Isooctane)	SI OEL	MV	500 ppm, 2.400 mg/m3	
	SI OEL	KTV	1.000 ppm, 4.800 mg/m3	

**SE**

Bestandsdelar	Grundval	Värde	Kontrollparametrar	Anmärkning
2,2,4-Trimethylpentane (Isooctane)	SE AFS	NGV	200 ppm, 900 mg/m3	
	SE AFS	KGV	300 ppm, 1.400 mg/m3	V.

V Vägledande kortidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas

**MK**

Съставки	Основа	Стойност	Параметри на контрол	Бележка
2,2,4-Trimethylpentane (Isooctane)	MK OEL	MV	500 ppm, 2.400 mg/m3	

**LV**

Sastāvdaļas	Bāze	Vērtība	Pārvaldības parametri	Piezīme
2,2,4-Trimethylpentane (Isooctane)	LV OEL	AER 8 st	100 mg/m3	
	LV OEL	AER īslaicīgā	300 mg/m3	

**LT**

Komponentai	Šaltinis	Vertė	Kontrolės parametrai	Pastaba
2,2,4-Trimethylpentane (Isooctane)	LT OEL	IPRD	200 ppm, 900 mg/m3	
	LT OEL	TPRD	300 ppm, 1.400 mg/m3	

**HU**

Komponensek	Bázis	Érték	Ellenőrzési paraméterek	Megjegyzés
2,2,4-Trimethylpentane (Isooctane)	HU OEL	AK-érték	2.350 mg/m3	R, i,
	HU OEL	CK-érték	4.700 mg/m3	R, i,

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

R Azok az anyagok, amelyek egészségkárosító hatása RÖVID expozíció hatására jelentkezik. Korrigált ÁK = ÁK x 8/a napi óraszám

**FR**

Composants	Base	Valeur	Paramètres de contrôle	Note
Isoalkanes C7-8	FR VLE	VME	1.000 mg/m3	Valeurs limites indicatives, Vapeur
	FR VLE	VLCT (VLE)	1.500 mg/m3	Valeurs limites indicatives, Vapeur
2,2,4-Trimethylpentane (Isooctane)	FR VLE	VME	1.000 mg/m3	Valeurs limites indicatives, Vapeur
	FR VLE	VLCT (VLE)	1.500 mg/m3	Valeurs limites indicatives, Vapeur

Valeurs limites Valeurs limites indicatives  
indicatives

**FI**

Aineosat	Peruste	Arvo	Valvontaa koskevat muutujat	Huomautus
2,2,4-Trimethylpentane (Isooctane)	FI OEL	HTP-arvot 8h	300 ppm, 1.400 mg/m3	
	FI OEL	HTP-arvot 15 min	380 ppm, 1.800 mg/m3	

**ES**

Componentes	Base	Valor	Parámetros de control	Nota
2,2,4-Trimethylpentane (Isooctane)	ES VLA	VLA-ED	300 ppm, 1.420 mg/m3	

**EE**

Komponendid, osad	Alused	Väärtus	Kontrolliparameetrid	Märkused
2,2,4-Trimethylpentane (Isooctane)	EE OEL	Piinorm	200 ppm, 900 mg/m3	
	EE OEL	Lühiajalise	300 ppm, 1.400 mg/m3	

SDS Number:100000067719

7/33

**SOLTROL® 10 Isoparaffin Solvent**

Version 1.14

Revision Date 2023-05-19

		kokkupuute piinorm		
--	--	--------------------	--	--

**CH**

Inhaltsstoffe	Grundlage	Wert	Zu überwachende Parameter	Bemerkung
2,2,4-Trimethylpentane (Isooctane)	CH SUVA	MAK-Wert	300 ppm, 1.400 mg/m3	NIOSH,
	CH SUVA	KZGW	600 ppm, 2.800 mg/m3	NIOSH,
	CH SUVA	MAK-Wert	100 ppm, 470 mg/m3	
	CH SUVA	KZGW	200 ppm, 940 mg/m3	

NIOSH National Institute for Occupational Safety and Health

**AT**

Inhaltsstoffe	Grundlage	Wert	Zu überwachende Parameter	Bemerkung
2,2,4-Trimethylpentane (Isooctane)	AT OEL	MAK-TMW	300 ppm, 1.400 mg/m3	
	AT OEL	MAK-KZW	1.200 ppm, 5.600 mg/m3	

**DNEL**Hydrocarbons C7-C8,  
isoalkanes, < 2% aromatics

: End Use: Workers  
Routes of exposure: Inhalation  
Potential health effects: Long-term systemic effects  
Value: 2085 mg/m3

End Use: Workers  
Routes of exposure: Dermal  
Potential health effects: Acute local effects  
Value: 300 mg/kg

End Use: Consumers  
Routes of exposure: Inhalation  
Potential health effects: Long-term systemic effects  
Value: 447 mg/m3

End Use: Consumers  
Routes of exposure: Dermal  
Potential health effects: Long-term systemic effects  
Value: 149 mg/kg

End Use: Consumers  
Routes of exposure: Oral  
Potential health effects: Long-term systemic effects  
Value: 149 mg/kg

**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 : If ventilation or other engineering controls are not adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure, a supplied-air NIOSH approved respirator may be appropriate. If exposure to harmful levels of airborne material may occur, a NIOSH approved respirator that



**SOLTROL® 10 Isoparaffin Solvent**

Version 1.14

Revision Date 2023-05-19

provides protection may be appropriate, such as:. Air-Purifying Respirator for Organic Vapors. A positive pressure, air-supplying respirator may be appropriate if there is potential for uncontrolled release, aerosolization, 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.

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

- Form : liquid
- Physical state : liquid
- Color : Colorless at room temperature
- Odor : Mild

**Safety data**

- Flash point : -11°C (12°F)  
Method: Tag closed cup
- Lower explosion limit : 1 %(V)
- Oxidizing properties : No
- Autoignition temperature : 420°C (788°F)
- Molecular formula : UVCB
- Molecular weight : Not applicable
- pH : Not applicable
- Pour point : No data available

**SOLTROL® 10 Isoparaffin Solvent**

Version 1.14

Revision Date 2023-05-19

Boiling point/boiling range	: 93,3-104,4°C (199,9-219,9°F)
Vapor pressure	: 114,64 MMHG at 37,8°C (100,0°F)
Relative density	: 0,697 at 15,6 °C (60,1 °F)
Water solubility	: negligible
Partition coefficient: n-octanol/water	: No data available
Viscosity, kinematic	: 0,56 cSt at 40°C (104°F)
Relative vapor density	: 2 (Air = 1.0)
Evaporation rate	: 1
Percent volatile	: > 99 %  < 0,01 %

**9.2****Other information**

Conductivity : No data available

**SECTION 10: Stability and reactivity****10.1****Reactivity** : Stable under recommended storage conditions.**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** : Hazardous reactions: Hazardous polymerization does not occur.

Further information: No hazards to be specially mentioned.

Hazardous reactions: Vapors may form explosive mixture with air.

**10.4****Conditions to avoid** : Heat, flames and sparks.**10.5**

**SOLTROL® 10 Isoparaffin Solvent**

Version 1.14

Revision Date 2023-05-19

<b>Materials to avoid</b>	: May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
<b>10.6 Hazardous decomposition products</b>	: Carbon Dioxide Carbon oxides
<b>Other data</b>	: No decomposition if stored and applied as directed.

**SECTION 11: Toxicological information****11.1****Information on toxicological effects****Acute oral toxicity**

Hydrocarbons C7-C8, isoalkanes, < 2% aromatics : LD50: > 7.100 - 7.800 mg/kg  
Species: Rat  
Sex: male  
Method: OECD Test Guideline 401  
Information given is based on data obtained from similar substances.

**Acute inhalation toxicity**

Hydrocarbons C7-C8, isoalkanes, < 2% aromatics : LC50: > 9,4 mg/l  
Exposure time: 4 h  
Species: Rat  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.  
Information given is based on data obtained from similar substances.

**SOLTROL® 10 Isoparaffin Solvent**

**Skin irritation** : Skin irritation

**SOLTROL® 10 Isoparaffin Solvent**

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

**SOLTROL® 10 Isoparaffin Solvent**

**Sensitization** : Did not cause sensitization on laboratory animals.  
Information given is based on data obtained from similar substances.

**Repeated dose toxicity**

Hydrocarbons C7-C8, isoalkanes, < 2% aromatics : Species: Rat, male and female  
Sex: male and female  
Application Route: Inhalation  
Dose: 0, 400, 1200 ppm  
Exposure time: 12 wk  
Number of exposures: 6 hr/d, 5 d/wk  
NOEL: 1200 ppm

**SOLTROL® 10 Isoparaffin Solvent**

Version 1.14

Revision Date 2023-05-19

Method: OECD Test Guideline 413  
 Target Organs: Kidney  
 Information given is based on data obtained from similar substances.

**Genotoxicity in vitro**

Hydrocarbons C7-C8,  
 isoalkanes, < 2% aromatics : Test Type: Ames test  
 Result: negative

**Reproductive toxicity**

Hydrocarbons C7-C8,  
 isoalkanes, < 2% aromatics : Species: Rat  
 Sex: male and female  
 Application Route: inhalation (vapor)  
 Number of exposures: 6 h/d; 5 d/wk  
 Method: OECD Test Guideline 416  
 NOAEL Parent: 10,560 mg/m<sup>3</sup>  
 NOAEL F1: 31,680 mg/m<sup>3</sup>  
 NOAEL F2: 31,680 mg/m<sup>3</sup>  
 Fertility and developmental toxicity tests did not reveal any effect on reproduction.  
 Information given is based on data obtained from similar substances.

**Developmental Toxicity**

Hydrocarbons C7-C8,  
 isoalkanes, < 2% aromatics : Species: Rat  
 Application Route: Inhalation  
 Dose: 500, 2000, 7000 ppm  
 Exposure time: 6h/d  
 Test period: GD 6-15  
 Method: OECD Guideline 414  
 NOAEL Teratogenicity: > 21,000 mg/m<sup>3</sup>  
 NOAEL Maternal: > 21,000 mg/m<sup>3</sup>  
 Animal testing did not show any effects on fetal development.  
 Information given is based on data obtained from similar substances.

**SOLTROL® 10 Isoparaffin Solvent**

**Aspiration toxicity** : May be fatal if swallowed and enters airways.

**Specific Target Organ Toxicity (Single Exposure)**

Hydrocarbons C7-C8,  
 isoalkanes, < 2% aromatics : Route of Exposure: Inhalation  
 Target Organs: Central nervous system  
 Assessment: May cause drowsiness or dizziness.

**CMR effects**

Hydrocarbons C7-C8,  
 isoalkanes, < 2% aromatics : Carcinogenicity: Not available  
 Mutagenicity: In vitro tests did not show mutagenic effects  
 Reproductive toxicity: No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

**11.2****Information on other hazards**

**SOLTROL® 10 Isoparaffin Solvent**

Version 1.14

Revision Date 2023-05-19

**SOLTROL® 10 Isoparaffin Solvent**

- Further information** : Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Concentrations substantially above the TLV value may cause narcotic effects. Solvents may degrease the skin.
- Endocrine disrupting properties : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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

- Hydrocarbons C7-C8, isoalkanes, < 2% aromatics : LC50: 5,4 mg/l  
Exposure time: 96 h  
Species: Oncorhynchus mykiss (rainbow trout)  
Method: OECD Test Guideline 203  
Information given is based on data obtained from similar substances.

**Toxicity to daphnia and other aquatic invertebrates**

- Hydrocarbons C7-C8, isoalkanes, < 2% aromatics : EL50: 143 mg/l  
Exposure time: 48 h  
Species: Daphnia magna (Water flea)  
static test Method: OECD Test Guideline 202

**Toxicity to algae**

- Hydrocarbons C7-C8, isoalkanes, < 2% aromatics : EL50: 29,0 mg/l  
Exposure time: 72 h  
Species: Raphidocellus subcapitata (algae)  
Growth inhibition Method: OECD Test Guideline 201

**Toxicity to fish (Chronic toxicity)**

- Hydrocarbons C7-C8, isoalkanes, < 2% aromatics : NOELR: 0,778 mg/l  
Exposure time: 28 d  
Species: Oncorhynchus mykiss (rainbow trout)  
Method: QSAR modeled data

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

- Hydrocarbons C7-C8, isoalkanes, < 2% aromatics : NOELR: 1 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)

**SOLTROL® 10 Isoparaffin Solvent**

Version 1.14

Revision Date 2023-05-19

Method: OECD Test Guideline 211  
Information given is based on data obtained from similar substances.

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

Biodegradability

Hydrocarbons C7-C8, isoalkanes, < 2% aromatics : Result: Not readily biodegradable.  
60 %  
Testing period: 60 d  
Method: OECD Test Guideline 301F  
Expected to be inherently biodegradable.  
Information given is based on data obtained from similar substances.

**12.3****Bioaccumulative potential**

Elimination information (persistence and degradability)

Bioaccumulation

Hydrocarbons C7-C8, isoalkanes, < 2% aromatics : This material is not expected to bioaccumulate.

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

Mobility : Medium: Air  
Method: Calculation, Mackay Level III Fugacity Model  
Content: 100 %

**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****Endocrine disrupting properties**

Endocrine disrupting properties : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**12.7****Other adverse effects**

Additional ecological information : Toxic to aquatic life with long lasting effects.

**12.8****Additional Information****Ecotoxicology Assessment**

**SOLTROL® 10 Isoparaffin Solvent**

Version 1.14

Revision Date 2023-05-19

Short-term (acute) aquatic hazard  
 Hydrocarbons C7-C8, : Toxic to aquatic life.  
 isoalkanes, < 2% aromatics

Long-term (chronic) aquatic hazard  
 Hydrocarbons C7-C8, : Toxic to aquatic life with long lasting effects.  
 isoalkanes, < 2% aromatics

**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.

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, II, MARINE POLLUTANT, (2,2,4-TRIMETHYLPENTANE (ISOOCTANE)), RQ (2,2,4-TRIMETHYLPENTANE (ISOOCTANE))

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

UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, II, (-11 °C c.c.), MARINE POLLUTANT, (ISOALKANES C7-8, 2,2,4-TRIMETHYLPENTANE (ISOOCTANE))

**IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)**

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

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

**SOLTROL® 10 Isoparaffin Solvent**

Version 1.14

Revision Date 2023-05-19

UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, II, (D/E), ENVIRONMENTALLY HAZARDOUS, (ISOALKANES C7-8, 2,2,4-TRIMETHYLPENTANE (ISOOCTANE))

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

33, UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, II, ENVIRONMENTALLY HAZARDOUS, (ISOALKANES C7-8, 2,2,4-TRIMETHYLPENTANE (ISOOCTANE))

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

UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, II, ENVIRONMENTALLY HAZARDOUS, (ISOALKANES C7-8, 2,2,4-TRIMETHYLPENTANE (ISOOCTANE))

**Maritime transport in bulk according to IMO instruments**

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

Commission Regulation (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

**Water hazard class (Germany)** : WGK 2 water endangering

**15.2****Chemical Safety Assessment**

**Components** : Hydrocarbons C7- C8, isoalkanes, < 2% aromatics A Chemical Safety Assessment has been carried out for this substance.

**Major Accident Hazard Legislation** : 96/82/EC Update: 2003  
Dangerous for the environment  
9b  
Quantity 1: 200 t  
Quantity 2: 500 t

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

: ZEU\_SEVES3 Update:  
ENVIRONMENTAL HAZARDS  
E2  
Quantity 1: 200 t  
Quantity 2: 500 t



**SOLTROL® 10 Isoparaffin Solvent**

Version 1.14

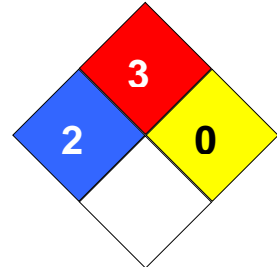
Revision Date 2023-05-19

**Notification status**

Europe REACH	:	This product is in full compliance according to REACH regulation 1907/2006/EC.
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	:	This product has been notified and approved for listing on the Canadian DSL. At this time, only Chevron Phillips Chemical Company LP can legally import the product into Canada.
Other 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	:	A substance(s) in this product was not registered, notified to be registered, or exempted from registration by CPChem according to K-REACH regulations. Importation or manufacture of this product is still permitted provided the Korean Importer of Record has themselves notified the substance or the exported amount does not exceed the minimum threshold quantity of the non-registered substance(s).
Philippines PICCS	:	Not in compliance with the inventory
China IECSC	:	Not in compliance with the inventory
Taiwan TCSI	:	On the inventory, or in compliance with the inventory

**SECTION 16: Other information**

**NFPA Classification** : Health Hazard: 2  
Fire Hazard: 3  
Reactivity Hazard: 0

**Further information**

Legacy SDS Number : 34750

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%
AIC	Australian Inventory of Industrial Chemicals	LOAEL	Lowest Observed Adverse Effect Level

**SOLTROL® 10 Isoparaffin Solvent**

Version 1.14

Revision Date 2023-05-19

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

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

H225	Highly flammable liquid and vapor.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

**SOLTROL® 10 Isoparaffin Solvent**

Version 1.14

Revision Date 2023-05-19

**SOLTROL® 10 Isoparaffin Solvent**

Version 1.14

Revision Date 2023-05-19

**Annex: Exposure Scenarios****Table of Contents**

Number	Title
ES 1	Use as a fuel - industrial; Industrial uses (SU3); Closed systems.
ES 2	Use as a fuel – professional; Professional uses (SU22); Closed systems.

**SOLTROL® 10 Isoparaffin Solvent**

Version 1.14

Revision Date 2023-05-19

**ES 1: Use as a fuel - industrial; Industrial uses (SU3); Closed systems.****1.1. Title section**

<b>Exposure Scenario name</b>	: Use as a fuel - industrial
<b>Structured Short Title</b>	: Use as a fuel - industrial; Industrial uses (SU3); Closed systems.
<b>Substance</b>	: alkanes, C7-8-iso- <u>EC-No.:</u> 274-273-1

**Environment**

<b>CS 1</b>	<b>Use as a fuel - industrial</b>	ERC7
-------------	-----------------------------------	------

**Worker**

<b>CS 2</b>	<b>General exposures (closed systems), Use in contained batch processes, PROC1 Storage</b>	
-------------	--	--

<b>CS 3</b>	<b>General exposures (closed systems), Use in contained batch processes, PROC2 Storage</b>	
-------------	--	--

<b>CS 4</b>	<b>General exposures (closed systems), Use in contained batch processes, PROC3 (closed systems)</b>	
-------------	---	--

<b>CS 5</b>	<b>Equipment cleaning and maintenance</b>	PROC8a
-------------	---	--------

<b>CS 6</b>	<b>Drum/batch transfers, Bulk transfers</b>	PROC8b
-------------	---	--------

<b>CS 7</b>	<b>Use in fuel</b>	PROC16
-------------	--------------------	--------

**1.2. Conditions of use affecting exposure****1.2.1. Control of environmental exposure: Industrial use of substances in closed systems (ERC7)****Amount used (or contained in articles), frequency and duration of use/exposure**

Maximum allowable site tonnage (MSafe)	: 260.000 kg
--	--------------

Critical compartment for Msafe	: Sewage treatment plant
--------------------------------	--------------------------

Release type	: Continuous release
--------------	----------------------

Emission days	: 20
---------------	------

**Technical and organisational conditions and measures**

Risk from environmental exposure is driven by freshwater sediment.  
No wastewater treatment required.  
Air - minimum efficiency of 95 %  
Water - minimum efficiency of 0 %

**Conditions and measures related to sewage treatment plant**

STP type	: Municipal sewage treatment plant
----------	------------------------------------

**SOLTROL® 10 Isoparaffin Solvent**

Version 1.14

Revision Date 2023-05-19

STP sludge treatment	:	Prevent discharge of undissolved substance to or recover from wastewater. Do not apply industrial sludge to natural soils. Sewage sludge should be incinerated, contained or reclaimed.
STP effluent	:	2.000 m3/d

**Conditions and measures related to treatment of waste (including article waste)**

Waste treatment	:	This substance is consumed during use and no waste of the substance is generated.
-----------------	---	---

**Other conditions affecting environmental exposure**

Receiving surface water flow : 18.000 m3/d

Local freshwater dilution factor : 10

Local marine water dilution factor : 100

**1.2.2. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)****Product (article) characteristics**

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid

**Amount used (or contained in articles), frequency and duration of use/exposure**

Duration : Covers daily exposures up to 8 hours

**Technical and organisational conditions and measures**Handle substance within a closed system.  
Store substance within a closed system.**Other conditions affecting workers exposure**

Temperature : Assumes use at not more than 20°C above ambient temperature.

**1.2.3. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)****Product (article) characteristics**

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid

**Amount used (or contained in articles), frequency and duration of use/exposure**

Duration : Covers daily exposures up to 8 hours

**SOLTROL® 10 Isoparaffin Solvent**

Version 1.14

Revision Date 2023-05-19

**Technical and organisational conditions and measures**

Handle substance within a closed system.  
Store substance within a closed system.

**Other conditions affecting workers exposure**

Temperature : Assumes use at not more than 20°C above ambient temperature.

**1.2.4. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)****Product (article) characteristics**

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid

**Amount used (or contained in articles), frequency and duration of use/exposure**

Duration : Covers daily exposures up to 8 hours

**Technical and organisational conditions and measures**

Handle substance within a closed system.  
No other specific measures identified.

**Other conditions affecting workers exposure**

Temperature : Assumes use at not more than 20°C above ambient temperature.

**1.2.5. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)****Product (article) characteristics**

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid

**Amount used (or contained in articles), frequency and duration of use/exposure**

Duration : Covers daily exposures up to 8 hours

**Technical and organisational conditions and measures**

No other specific measures identified.

**Other conditions affecting workers exposure**

Temperature : Assumes use at not more than 20°C above ambient

**SOLTROL® 10 Isoparaffin Solvent**

Version 1.14

Revision Date 2023-05-19

temperature.

**1.2.6. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)****Product (article) characteristics**

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid

**Amount used (or contained in articles), frequency and duration of use/exposure**

Duration : Covers daily exposures up to 8 hours

**Technical and organisational conditions and measures**

No other specific measures identified.

**Other conditions affecting workers exposure**

Temperature : Assumes use at not more than 20°C above ambient temperature.

**1.2.7. Control of worker exposure: Using material as fuel sources, limited exposure to unburned product to be expected (PROC16)****Product (article) characteristics**

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid

**Amount used (or contained in articles), frequency and duration of use/exposure**

Duration : Covers daily exposures up to 8 hours

**Technical and organisational conditions and measures**

Handle substance within a closed system.

**Other conditions affecting workers exposure**

Temperature : Assumes use at not more than 20°C above ambient temperature.

**1.3. Exposure estimation and reference to its source****1.3.1. Environmental release and exposure: Industrial use of substances in closed systems (ERC7)**

Protection Target

Exposure estimate

RCR



**SOLTROL® 10 Isoparaffin Solvent**

Version 1.14

Revision Date 2023-05-19

Freshwater	0,0000005 mg/l (Hydrocarbon Block Method (Petrorisk))	0,000
Freshwater sediment	0,0000017 mg/kg wet weight (Hydrocarbon Block Method (Petrorisk))	0,000
Sea water	0,0000000 mg/l (Hydrocarbon Block Method (Petrorisk))	0,000
Sea sediment	0,0000017 mg/kg wet weight (Hydrocarbon Block Method (Petrorisk))	0,000
Soil	0,0000000 mg/kg wet weight (Hydrocarbon Block Method (Petrorisk))	0,000

**Additional information on exposure estimation**

Common practices vary across sites thus conservative process release estimates used.

**1.3.2. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic		0,05 mg/m <sup>3</sup>	0,000
dermal	systemic		0,34 mg/kg/d	0,000
combined routes				0,000

**Additional information on exposure estimation**

Estimated workplace exposures are not expected to exceed DNELs when the identified risk management measures are adopted.

**1.3.3. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic		48,67 mg/m <sup>3</sup>	0,024
dermal	systemic		1,37 mg/kg/d	0,002
combined routes				0,026

**Additional information on exposure estimation**

Estimated workplace exposures are not expected to exceed DNELs when the identified risk management measures are adopted.

**1.3.4. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)**

**SOLTROL® 10 Isoparaffin Solvent**

Version 1.14

Revision Date 2023-05-19

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic		121,68 mg/m <sup>3</sup>	0,060
dermal	systemic		0,34 mg/kg/d	0,000
combined routes				0,060

**Additional information on exposure estimation**

Estimated workplace exposures are not expected to exceed DNELs when the identified risk management measures are adopted.

**1.3.5. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic		243,35 mg/m <sup>3</sup>	0,120
dermal	systemic		13,71 mg/kg/d	0,018
combined routes				0,137

**Additional information on exposure estimation**

Estimated workplace exposures are not expected to exceed DNELs when the identified risk management measures are adopted.

**1.3.6. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic		243,35 mg/m <sup>3</sup>	0,120
dermal	systemic		6,86 mg/kg/d	0,009
combined routes				0,128

**Additional information on exposure estimation**

Estimated workplace exposures are not expected to exceed DNELs when the identified risk management measures are adopted.

**1.3.7. Worker exposure: Using material as fuel sources, limited exposure to unburned product to be expected (PROC16)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic		24,34 mg/m <sup>3</sup>	0,012
dermal	systemic		0,34 mg/kg/d	0,000
combined routes				0,012

**SOLTROL® 10 Isoparaffin Solvent**

Version 1.14

Revision Date 2023-05-19

**Additional information on exposure estimation**

Estimated workplace exposures are not expected to exceed DNELs when the identified risk management measures are adopted.

**1.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES**

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Further details on scaling and control technologies are provided in SpERC factsheet (<http://cefic.org/en/reach-for-industries-libraries.html>).

**SOLTROL® 10 Isoparaffin Solvent**

Version 1.14

Revision Date 2023-05-19

**ES 2: Use as a fuel – professional; Professional uses (SU22); Closed systems.****2.1. Title section**

<b>Exposure Scenario name</b>	: Use as a fuel – professional
<b>Structured Short Title</b>	: Use as a fuel – professional; Professional uses (SU22); Closed systems.
<b>Substance</b>	: alkanes, C7-8-iso- <u>EC-No.:</u> 274-273-1

**Environment**

<b>CS 1</b>	<b>Use as a fuel - industrial</b>	ERC9a, ERC9b
-------------	-----------------------------------	-----------------

**Worker**

<b>CS 2</b>	<b>General exposures (closed systems), Storage</b>	PROC1
<b>CS 3</b>	<b>General exposures (closed systems)</b>	PROC2
<b>CS 4</b>	<b>Equipment cleaning and maintenance</b>	PROC8a
<b>CS 5</b>	<b>Bulk transfers, Drum/batch transfers, Refuelling</b>	PROC8b
<b>CS 6</b>	<b>Use in fuel</b>	PROC16

**2.2. Conditions of use affecting exposure****2.2.1. Control of environmental exposure: Widespread use of functional fluid (indoor) (ERC9a) / Widespread use of functional fluid (outdoor) (ERC9b)****Amount used (or contained in articles), frequency and duration of use/exposure**

Maximum allowable site tonnage (MSafe)	: 860 kg
Critical compartment for Msafe	: Sewage treatment plant
Release type	: Continuous release
Emission days	: 365

**Technical and organisational conditions and measures**

Risk from environmental exposure is driven by freshwater.  
No wastewater treatment required.  
Water - minimum efficiency of 0 %

**Conditions and measures related to sewage treatment plant**

STP type	: Municipal sewage treatment plant
STP sludge treatment	: Prevent discharge of undissolved substance to or recover from wastewater. Do not apply industrial sludge to natural soils.

**SOLTROL® 10 Isoparaffin Solvent**

Version 1.14

Revision Date 2023-05-19

STP effluent : 2.000 m3/d  
Sewage sludge should be incinerated, contained or reclaimed.

**Conditions and measures related to treatment of waste (including article waste)**

Waste treatment : This substance is consumed during use and no waste of the substance is generated.

**Other conditions affecting environmental exposure**

Receiving surface water flow : 18.000 m3/d

Local freshwater dilution factor : 10

Local marine water dilution factor : 100

**2.2.2. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)****Product (article) characteristics**

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid

**Amount used (or contained in articles), frequency and duration of use/exposure**

Duration : Covers daily exposures up to 8 hours

**Technical and organisational conditions and measures**

Handle substance within a closed system.  
Store substance within a closed system.

**Other conditions affecting workers exposure**

Temperature : Assumes use at not more than 20°C above ambient temperature.

**2.2.3. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)****Product (article) characteristics**

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid

**Amount used (or contained in articles), frequency and duration of use/exposure**

Duration : Covers daily exposures up to 8 hours

**Technical and organisational conditions and measures**

**SOLTROL® 10 Isoparaffin Solvent**

Version 1.14

Revision Date 2023-05-19

Handle substance within a closed system.

**Other conditions affecting workers exposure**

Temperature : Assumes use at not more than 20°C above ambient temperature.

**2.2.4. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)****Product (article) characteristics**

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid

**Amount used (or contained in articles), frequency and duration of use/exposure**

Duration : Covers daily exposures up to 8 hours

**Technical and organisational conditions and measures**

No other specific measures identified.

**Other conditions affecting workers exposure**

Temperature : Assumes use at not more than 20°C above ambient temperature.

**2.2.5. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)****Product (article) characteristics**

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid

**Amount used (or contained in articles), frequency and duration of use/exposure**

Duration : Covers daily exposures up to 8 hours

**Technical and organisational conditions and measures**

Handle substance within a closed system.  
Clear transfer lines prior to de-coupling.  
No other specific measures identified.

**Other conditions affecting workers exposure**

Temperature : Assumes use at not more than 20°C above ambient temperature.

**SOLTROL® 10 Isoparaffin Solvent**

Version 1.14

Revision Date 2023-05-19

**2.2.6. Control of worker exposure: Use of fuels (PROC16)****Product (article) characteristics**

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid

**Amount used (or contained in articles), frequency and duration of use/exposure**

Duration : Covers daily exposures up to 8 hours

**Technical and organisational conditions and measures**

Handle substance within a closed system.

**Other conditions affecting workers exposure**

Temperature : Assumes use at not more than 20°C above ambient temperature.

**2.3. Exposure estimation and reference to its source****2.3.1. Environmental release and exposure: Widespread use of functional fluid (indoor) (ERC9a) / Widespread use of functional fluid (outdoor) (ERC9b)**

Protection Target	Exposure estimate	RCR
Freshwater	0,0000000 mg/l (Hydrocarbon Block Method (Petrorisk))	0,000
Freshwater sediment	0,0000000 mg/kg wet weight (Hydrocarbon Block Method (Petrorisk))	0,000
Sea water	0,0000000 mg/l (Hydrocarbon Block Method (Petrorisk))	0,000
Sea sediment	0,0000000 mg/kg wet weight (Hydrocarbon Block Method (Petrorisk))	0,000
Soil	0,0000000 mg/kg wet weight (Hydrocarbon Block Method (Petrorisk))	0,000

**Additional information on exposure estimation**

Common practices vary across sites thus conservative process release estimates used.

**2.3.2. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR

**SOLTROL® 10 Isoparaffin Solvent**

Version 1.14

Revision Date 2023-05-19

inhalative	systemic		0,05 mg/m <sup>3</sup>	0,000
dermal	systemic		0,34 mg/kg/d	0,000
combined routes				0,000

**Additional information on exposure estimation**

Estimated workplace exposures are not expected to exceed DNELs when the identified risk management measures are adopted.

**2.3.3. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic		97,34 mg/m <sup>3</sup>	0,048
dermal	systemic		1,37 mg/kg/d	0,002
combined routes				0,050

**Additional information on exposure estimation**

Estimated workplace exposures are not expected to exceed DNELs when the identified risk management measures are adopted.

**2.3.4. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic		486,71 mg/m <sup>3</sup>	0,239
dermal	systemic		13,71 mg/kg/d	0,018
combined routes				0,257

**Additional information on exposure estimation**

Estimated workplace exposures are not expected to exceed DNELs when the identified risk management measures are adopted.

**2.3.5. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic		243,35 mg/m <sup>3</sup>	0,120
dermal	systemic		6,86 mg/kg/d	0,009
combined routes				0,128

**Additional information on exposure estimation**

Estimated workplace exposures are not expected to exceed DNELs when the identified risk management measures are adopted.



**SOLTROL® 10 Isoparaffin Solvent**

Version 1.14

Revision Date 2023-05-19

management measures are adopted.

**2.3.6. Worker exposure: Use of fuels (PROC16)**

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic		48,67 mg/m <sup>3</sup>	0,024
dermal	systemic		0,34 mg/kg/d	0,000
combined routes				0,024

**Additional information on exposure estimation**

Estimated workplace exposures are not expected to exceed DNELs when the identified risk management measures are adopted.

**2.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES**

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Further details on scaling and control technologies are provided in SpERC factsheet (<http://cefic.org/en/reach-for-industries-libraries.html>).