

Orfom® MCS

Version 2.0 Revision Date 2024-02-05

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

: Orfom® MCS Product Name

Material : 1116197, 1116158, 1113750, 1113589, 1113586, 1113584

EC-No.Registration number

Chemical name	CAS-No. EC-No. Index No.	Legal Entity Registration number
Hydrocarbons, C12-C16, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)		Chevron Phillips Chemical Company LP 01-2120787012-59-0000

1.2

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

Relevant Identified Uses : Use in mining – industrial

Supported 1.3

Details of the supplier of the safety data sheet

Company : Chevron Phillips Chemical Company LP

> 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

Responsible Party: Product Safety Group

Email:sds@cpchem.com

Emergency telephone:

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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: POISON CENTER MILÂN – Azienda Ospedaliera Niguarda Ca` Grande Tel. +39 02 66101029; POISON CENTER ROME – Policlinico "Agostino Gemelli", Servizio di tossicologia clinica Tel. +39 06 3054343; POISON CENTER ROME – Ospedale Pediatrico Bambino Gesù Tel. +39 06 68593726; POISON CENTER ROME – Policlinico "Umberto I" Tel. +39 06 4997 8000; POISON CENTER FOGGIA – Azienda Ospedaliera Universitaria Riuniti Tel. +39 0881 732326; POISON CENTER NAPLES – Azienda Ospedaliera "Antonio Cardarelli" Tel. +39 081 7472870; POISON CENTER FLORENCE – Azienda Ospedaliera universitaria Careggi Tel. +39 055 7947819; POISON CENTER PAVIA – IRCCS Fondazione Salvatore Maugeri Tel. +39 0382 24444; POISON CENTER BERGAMO – Azienda Ospedaliera "Papa Giovanni XXIII" Tel. 800 883 300; POISON CENTER VERONA – Azienda Ospedaliera Universitaria integrata Tel. 800 011 858;

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

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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

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SECTION 2: Hazards identification

2.1

Classification of the substance or mixture **REGULATION (EC) No 1272/2008**

Specific target organ toxicity - single H336:

exposure, Category 3, Central nervous

system

Specific target organ toxicity - repeated

exposure, Category 1

Causes damage to organs through prolonged or

May cause drowsiness or dizziness.

repeated exposure.

H304:

Aspiration hazard, Category 1

May be fatal if swallowed and enters airways.

H411:

Long-term (chronic) aquatic hazard, Category 2 Toxic to aquatic life with long lasting effects.

2.2

Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms







Signal Word Danger

Hazard Statements H304 May be fatal if swallowed and enters

airways.

H336 May cause drowsiness or dizziness. Causes damage to organs through H372 prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements Prevention:

> P260 Do not breathe dust/ fume/ gas/ mist/

> > vapors/ spray.

P273 Avoid release to the environment.

Response:

P301 + P310 IF SWALLOWED: Immediately call a

POISON CENTER/ doctor.

P304 + P340 + P312 IF INHALED: Remove person to fresh

> air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel

unwell.

Do NOT induce vomiting. P331

P391 Collect spillage.

Hazardous ingredients which must be listed on the label:

64742-47-8 Distillates (petroleum), Hydrotreated light

2.3

Other hazards

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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.

or higher.

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 : Low Aromatic Solvent

Solvent

Solvent Extraction Diluent

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, C12-C16, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)		STOT SE 3; H336 STOT RE 1; H372 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.

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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

Treatment : No data available.

SECTION 5: Firefighting measures

Flash point : 79-80°C (174-176°F)

Autoignition temperature : 227°C (441°F)

5.1

Extinguishing media

Suitable extinguishing : Use water spray, alcohol-resistant foam, dry chemical or

media carbon dioxide.

Unsuitable extinguishing : Straight streams of water.

media

fighting

Special hazards arising from the substance or mixture

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

courses.

5.3

5.2

Advice for firefighters

Special protective : Wear self-contained breathing apparatus for firefighting if equipment for fire-fighters 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. Keep away from open flames, hot surfaces and sources of

ignition.

Hazardous decomposition

products

: Hydrocarbons. 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.

6.2

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Environmental precautions

Environmental precautions : Prevent product from entering drains. Prevent further leakage

or spillage if safe to do so. If the product contaminates rivers

and lakes or drains inform respective authorities.

6.3

Methods and materials for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible

absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable,

closed containers for disposal.

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. Provide sufficient air exchange and/or exhaust in work rooms. 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. 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.

SECTION 8: Exposure controls/personal protection

8.1

Control parameters Ingredients with workplace control parameters

SK

Zložky	Podstata	Hodnota	Kontrolné parametre	Poznámka
64742-47-8	SK OEL	NPEL priemerný	50 ppm, 300 mg/m3	

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SK OEL	NPEL krátkodobý	100 ppm, 600 mg/m3	
SK OEL	NPEL priemerný	5 ppm, 1 mg/m3	13,
SK OEL	NPEL krátkodobý	15 ppm, 3 mg/m3	13,
SK OEL	NPEL krátkodobý	15 ppm, 3 mg/m3	kvapalný aerosól
SK OEL	NPEL priemerný	5 ppm, 1 mg/m3	kvapalný aerosól
SK OEL	NPEL priemerný	5 ppm, 1 mg/m3	Dymy
SK OEL	NPEL krátkodobý	15 ppm, 3 mg/m3	Dymy

13 Limit sa vzťahuje na hydraulické a obrábacie kvapaliny a mazivá. Niektoré oleje môžu obsahovať polycyklické aromatické uhľovodíky a pri zahrievaní ich môžu uvoľňovať. Treba to brať do úvahy pri meraní a hodnotení rizika.

SI

Sestavine	Osnova	Vrednost	Parametri nadzora	Pripomba
64742-47-8	SI OEL	MV	300 mg/m3	

SE

Beståndsdelar	Grundval	Värde	Kontrollparametrar	Anmärkning
64742-47-8	SE AFS	NGV	350 mg/m3	19,
	SE AFS	KGV	500 mg/m3	19,
	SE AFS	NGV	30 ppm, 175 mg/m3	H,
	SE AFS	KGV	60 ppm, 350 mg/m3	V, H,
	SE AFS	NGV	1 mg/m3	Dimma
	SE AFS	KGV	3 mg/m3	V, Dimma

- Gränsvärdet avser kolväten i ångform dvs. upp till 12 kolatomer. Vid exponering för kolväten med mer än 12 kolatomer som förekommer i form av aerosol, partiklar eller vätskedroppar, tillämpas gränsvärdet för organiskt damm och dimma, 5 mg/m3. Gränsvärdet gäller inte för aromatfri lacknafta (< 2 viktsprocent) som har eget gränsvärde.
- Ämnet kan lätt upptas genom huden.
- Vägledande korttidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas

RO

Componente	Sursă	Valoare	Parametri de control	Notă
64742-47-8	RO OEL	TWA	5 mg/m3	
	RO OEL	STEL	10 mg/m3	

PΤ

Componentes	Bases	Valor	Parâmetros de controlo	Nota
64742-47-8	PT OEL	VLE-MP	200 mg/m3	P, A3, (P), irritação do TRS, afeção do SNC,
	PT OEL	VLE-MP	5 mg/m3	(O), (),
	PT OEL	VLE_CD	10 mg/m3	(),

- () Os valores ou características encontram-se propostos para alteração
- A amostragem deve ser realizada com um método que não recolha vapor.
- Aplicação restrita às condições nas quais são negligenciáveis as exposições a aerossóis
- Agente carcinogénico confirmado nos animais de laboratório com relevância desconhecida no Homem.

afeção do SNC afeção do sistema nervoso central irritação do trato respiratório superior

irritação do TRS

Perigo de absorção cutânea

PL

Składniki	Podstawa	Wartość	Parametry dotyczące kontroli	Uwaga
64742-47-8	PL NDS	NDS	5 mg/m3	Aerozol
	PL NDS	NDSch	10 mg/m3	Aerozol
	PL NDS	NDS	300 mg/m3	
	PL NDS	NDSch	900 mg/m3	

NO

Komponenter	Grunnlag	Verdi	Kontrollparametrer	Nota
64742-47-8	FOR-2011-12-06- 1358	GV	50 ppm, 275 mg/m3	
	FOR-2011-12-06- 1358	GV	40 ppm, 275 mg/m3	
	FOR-2011-12-06- 1358	GV	50 mg/m3	Damp
	FOR-2011-12-06- 1358	GV	1 mg/m3	Tåke - partikler

Bestanddelen	Basis	Waarde	Controleparameters	Opmerking
64742-47-8	NL WG	TGG-8 uur	5 mg/m3	
	NL WG	TGG-8 uur	5 mg/m3	Nevels

L۷

Sastāvdaļas	Bāze	Vērtība	Pārvaldības parametri	Piezīme
64742-47-8	LV OEL	AER 8 st	5 mg/m3	

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Šaltinis Vertė Kontrolės parametrai Pastaba Komponentai

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			SAFE	TY DATA SHE
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64742-47-8	LT OEL	IPRD	350 mg/m3	
	LT OEL	TPRD	500 mg/m3	
3				
Komponenter	Grunnlag	Verdi	Kontrollparametrer	Nota
64742-47-8	IS OEL	TWA	1 mg/m3	Particles (mist)
U				
Komponensek	Bázis	Érték	Ellenőrzési	Megjegyzés
			paraméterek	SCOEL/SUM/163/201
64742-47-8	HU OEL	AK-érték	5 mg/m3	T, Köd
óraszám	:3/2011 k, amelyek egészségkárosító h	atása TARTÓS expozíciót kö	övetően jelentkezik. Korrigált Á	K = ÁK x 40/a heti
R Sastoici	Temelj	Vrijednost	Nadzorni parametri	Bilješka
64742-47-8	HR OEL	GVI	100 ppm, 400 mg/m3	Dijooka
		<u> </u>	, , , , , , , , , , , , , , , , , , , ,	•
R Συστατικά	Βάση	Turé	Παράμετροι ελέγχου	Σημείωση
64742-47-8	GR OEL	Tιμή TWA	5 mg/m3	Σημείωση _{Ομίχλη}
		1,	,gv	r A I
Aineosat	Peruste	Arvo	Valvontaa koskevat muuttujat	Huomautus
64742-47-8	FI OEL	HTP-arvot 8h	5 mg/m3	Sumu
 S	<u>.</u>			
Componentes	Base	Valor	Parámetros de control	Nota
64742-47-8	ES VLA	VLA-ED	5 mg/m3	Niebla
	ES VLA	VLA-EC	10 mg/m3	Niebla
E				
Komponendid, osad	Alused	Väärtus	Kontrolliparameetrid	Märkused
64742-47-8	EE OEL	Piirnorm	350 mg/m3	11,
	EE OEL	Lühiajalise kokkupuute piirnorm	500 mg/m3	11,
	EE OEL	Piirnorm	5 mg/m3	
11 Süoiyooinika niiri	EE OEL normid on arvutatud auru faasi	Piirnorm	1 mg/m3	Aur
	lastussisaldus < 350 mg/m3. Ad			daanid ja kõrgemad) õi
Komponenter	Basis	Værdi	Kontrolparametre	Note
64742-47-8	DK OEL	GV	1 mg/m3	tåge og partikler
,				
Z Složky	Základ	Hodnota	Kontrolní parametry	Poznámka
64742-47-8	CZ OEL	PEL	5 mg/m3	Aerosol
	CZ OEL	NPK-P	10 mg/m3	Aerosol
Υ				
Συστατικά	Βάση	Τιμή	Παράμετροι ελέγχου	Σημείωση
64742-47-8	CY OEL 2	M.E.Σ.	5 mg/m3	
Н				
Inhaltsstoffe	Grundlage	Wert	Zu überwachende	Bemerkung
	- aaiago		Parameter	
64742-47-8	CH SUVA	MAK-Wert	100 ppm, 525 mg/m3	OSHA,
	CH SUVA	MAK-Wert	5 mg/m3	OSHA, SSc, einatembare Aerosole
	011 011 //	KZGW	100 ppm, 700 mg/m3	OSHA, SSc, Dampf
	CH SUVA		50 ppm, 350 mg/m3	OSHA, SSc, Dampf
OSHA Occupational Sa	CH SUVA	MAK-Wert	30 ppm, 330 mg/m3	, ,
SSc Eine Schädigung				, , ,
SSc Eine Schädigung G	CH SUVA fety and Health Administration			Бележка
SSc Eine Schädigung G Съставки	CH SUVA Ifety and Health Administration g der Leibesfrucht braucht bei E	Einhaltung des MAK-Wertes і	nicht befürchtet zu werden. Параметри на контрол	
	CH SUVA Ifety and Health Administration g der Leibesfrucht braucht bei E	Einhaltung des MAK-Wertes ı	nicht befürchtet zu werden. Параметри на	
SSc Eine Schädigung G Съставки	CH SUVA Ifety and Health Administration g der Leibesfrucht braucht bei E	Einhaltung des MAK-Wertes i Стойност ТWA	nicht befürchtet zu werden. Параметри на контрол	
SSc Eine Schädigung G Съставки 64742-47-8	CH SUVA Ifety and Health Administration g der Leibesfrucht braucht bei E OCHOBA BG OEL Basis	Einhaltung des MAK-Wertes i Стойност ТWA Waarde	Параметри на контрол 5 mg/m3 Controleparameters	
SSc Eine Schädigung G Съставки 64742-47-8 E Bestanddelen 64742-47-8	CH SUVA Ifety and Health Administration g der Leibesfrucht braucht bei E OCHOBA BG OEL	Einhaltung des MAK-Wertes i Стойност ТWA Waarde ТGG 8 hr	пісht befürchtet zu werden. Параметри на контрол 5 mg/m3 Controleparameters 200 mg/m3	Бележка Орmerking D,

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kan het gevolg zijn van zowel direct contact als zijn aanwezigheid in de lucht.

8.2

Exposure controls Engineering measures

Adequate ventilation to control airborned 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 provides protection may be appropriate, such as:. 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.

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 protective clothing. Footwear protecting against chemicals.

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

Physical state : liquid

Color : Clear, Colorless
Odor : characteristic

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Flash point : 79-80°C (174-176°F)

Lower explosion limit : Not applicable

Upper explosion limit : Not applicable

Autoignition temperature : 227°C (441°F)

Molecular formula : UVCB

Molecular weight : Not applicable

pH : Not applicable

Pour point : -21° C (-6° F)

Boiling point/boiling range : 207-274°C (405-526°F)

Method: ASTM D 86

Vapor pressure : 0,01 PSI

at 25°C (77°F)

Method: ASTM D5191

Relative density : 0,810 - 0,850

at 15 °C (59 °F)

Density : 6,8 - 7,1 L/G

Water solubility : negligible

Partition coefficient: n-

octanol/water

: No data available

Viscosity, kinematic : 2,12 cSt

at 40°C (104°F)

Method: ASTM D 445

Relative vapor density : Not applicable

Evaporation rate : No data available

9.2

Other information

Conductivity : No data available

SECTION 10: Stability and reactivity

10.1

Reactivity : Stable under recommended storage conditions.

10.2

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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 polymerization does not

occur.

Hazardous reactions: Vapors may form explosive mixture with

air

10.4

Conditions to avoid : Heat, flames and sparks.

10.5

Materials to avoid : Strong oxidizing agents.

10.6

Hazardous decomposition

products

: Hydrocarbons Carbon oxides

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

SECTION 11: Toxicological information

11.1

Information on toxicological effects

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Acute oral toxicity : LD50 Oral: > 5.000 mg/kg

Species: Rat

Method: Acute toxicity estimate

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Acute inhalation toxicity : LC50: > 20 mg/l

Species: Rat

Test atmosphere: vapor Method: Acute toxicity estimate

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Acute dermal toxicity : LD50 Dermal: > 5.000 mg/kg

Species: Rabbit

Method: Acute toxicity estimate

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Skin irritation : Irritating to skin.

May cause skin irritation in susceptible persons.

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Eye irritation : May irritate eyes.

Vapors may cause irritation to the eyes, respiratory system

and the skin.

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Sensitization : Did not cause sensitization on laboratory animals.

Information refers to the main ingredient.

Repeated dose toxicity

Hydrocarbons, C12-C16, nalkanes, isoalkanes, cyclics, aromatics (2-25%)

: Species: Rat, male Sex: male

Application Route: inhalation (vapor)

Exposure time: 13 wks Number of exposures: 6 h/d NOEL: 10504 mg/m3

Lowest observable effect level: 31652 mg/m3

Method: OECD Guideline 413 Target Organs: Kidney, Liver

Information given is based on data obtained from similar

substances.

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Species: Rat, female

Sex: female

Application Route: inhalation (vapor)

Exposure time: 13 wks Number of exposures: 24 h/d NOEL: 31652 mg/m3 Method: OECD Guideline 413

Information given is based on data obtained from similar

substances.

Species: Rat, male

Sex: male

Application Route: oral gavage Dose: 116, 347, 1056 mg/kg Exposure time: 13 wks Number of exposures: daily

Lowest observable effect level: 347 mg/kg

Method: OECD Test Guideline 408

Target Organs: Kidney

Information given is based on data obtained from similar

substances.

Species: Rat, female

Sex: female

Application Route: oral gavage Dose: 116, 347, 1056 mg/kg Exposure time: 13 wks Number of exposures: daily NOEL: 1.056 mg/kg

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Method: OECD Test Guideline 408 Information given is based on data obtained from similar

substances.

Species: Rat, male and female

Sex: male and female Application Route: Dermal Dose: 165, 330, 495 mg/kg/d Exposure time: 13 wks Number of exposures: 5 d/wk

NOEL: > 495 mg/kg

Method: OECD Test Guideline 411

Information given is based on data obtained from similar

substances.

Genotoxicity in vitro

Hydrocarbons, C12-C16, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

: Test Type: reverse mutation assay

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Remarks: Information given is based on data obtained from

similar substances.

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Test Type: Cytogenetic assay

Metabolic activation: with and without metabolic activation

Method: OECD Guideline 473

Result: negative

Remarks: Information given is based on data obtained from

similar substances.

Test Type: Mouse lymphoma assay

Metabolic activation: with and without metabolic activation

Method: OECD Guideline 476

Result: negative

Remarks: Information given is based on data obtained from

similar substances.

Genotoxicity in vivo

Hydrocarbons, C12-C16, n-alkanes, isoalkanes, cyclics,

aromatics (2-25%)

Test Type: Micronucleus test

Species: Mouse

Route of Application: Intraperitoneal injection

Method: OECD Test Guideline 474

Result: negative

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Carcinogenicity: Method: Estimated based on individual component values.

Remarks: Not expected to be carcinogenic based on

individual component data.

Reproductive toxicity

Hydrocarbons, C12-C16, n-alkanes, isoalkanes, cyclics,

aromatics (2-25%)

: Species: Rat

Sex: male and female

Application Route: oral gavage Dose: 50, 200, 750 mg/kg/d Method: OECD Test Guideline 416 NOAEL Parent: >= 750 mg/kg NOAEL F1: >= 750 mg/kg No adverse effects expected

Information given is based on data obtained from similar

substances.

Developmental Toxicity

Hydrocarbons, C12-C16, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

: Species: Rat

Application Route: oral gavage Dose: 0, 400, 800, 1000 mg/kg/bw Number of exposures: Daily

Test period: GD 6 - 15 Method: OECD Guideline 414

NOAEL Teratogenicity: > 1.000 mg/kg NOAEL Maternal: > 1.000 mg/kg

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

Specific Target Organ Toxicity (Single Exposure)

Hydrocarbons, C12-C16, n- : Route of Exposure:Inhalation

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alkanes, isoalkanes, cyclics,

aromatics (2-25%)

Target Organs: Central nervous system

Assessment: May cause drowsiness or dizziness.

Specific Target Organ Toxicity (Repeated Exposure)

Hydrocarbons, C12-C16, n-alkanes, isoalkanes, cyclics,

alkanes, isoalkanes, cyclics, aromatics (2-25%)

: Route of Exposure:Inhalation Target Organs: Central nervous system

Assessment: Causes damage to organs through prolonged or

repeated exposure.

11.2

Information on other hazards

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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

Toxicity to fish

Hydrocarbons, C12-C16, n-alkanes, isoalkanes, cyclics,

aromatics (2-25%)

: LL50: 10 - 30 mg/l Exposure time: 96 h

Species: Fish

Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates

Hydrocarbons, C12-C16, n-alkanes, isoalkanes, cyclics,

aromatics (2-25%)

: EL50: 10 - 22 mg/l Exposure time: 48 h

Species: Daphnia magna (Water flea)

static test Method: OECD Test Guideline 202

Toxicity to algae

Hydrocarbons, C12-C16, n-alkanes, isoalkanes, cyclics,

: EL50: 1 - 3 mg/l Exposure time: 72 h

aromatics (2-25%)

Species: Pseudokirchneriella subcapitata (green algae)

Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

Hydrocarbons, C12-C16, n- : NOEC: 0,48 mg/l alkanes, isoalkanes, cyclics, Exposure time: 21 Days

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aromatics (2-25%) Species: Daphnia magna (Water flea)

Method: OECD Test Guideline 211

12.2

Persistence and degradability

Taking into consideration the properties of several ingredients, Biodegradability

the product is estimated to be biodegradable according to

OECD classification.

12.3

Bioaccumulative potential

Elimination information (persistence and degradability)

Bioaccumulation

Hydrocarbons, C12-C16, nalkanes, isoalkanes, cyclics,

aromatics (2-25%)

: This material is not expected to bioaccumulate.

12.4

Mobility in soil

Mobility

Hydrocarbons, C12-C16, nalkanes, isoalkanes, cyclics,

aromatics (2-25%)

: Medium: Air

Method: Calculation, Mackay Level III Fugacity Model

Content: 96 %

: Medium: Water

Method: Calculation, Mackay Level III Fugacity Model

Content: 1,4 %

: Medium: Soil

Method: Calculation, Mackay Level III Fugacity Model

Content: 0,07 %

: Medium: Sediment

Method: Calculation, Mackay Level III Fugacity Model

Content: 1,3 %

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

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Additional ecological

information

: Toxic to aquatic life with long lasting effects.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Toxic to aquatic life with

long lasting effects.

12.8

Additional Information

Ecotoxicology Assessment

Short-term (acute) aquatic

: Toxic to aquatic life.

hazard

Long-term (chronic) aquatic

: Toxic to aquatic life with long lasting effects.

hazard

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)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

Testing (ASTM D4206) has shown product does not sustain combustion.

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IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (DISTILLATES (PETROLEUM), HYDROTREATED LIGHT), 9, III, (79 - 80 °C c.c.), MARINE POLLUTANT, (DISTILLATES (PETROLEUM), HYDROTREATED LIGHT)

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (DISTILLATES (PETROLEUM), HYDROTREATED LIGHT), 9, III

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

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (DISTILLATES (PETROLEUM), HYDROTREATED LIGHT), 9, III, (-)

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

90,UN3082,ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (DISTILLATES (PETROLEUM), HYDROTREATED LIGHT), 9, III

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

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (DISTILLATES (PETROLEUM), HYDROTREATED LIGHT), 9, III

TANK VESSELS: ID9003, SUBSTANCES WITH A FLASH-POINT ABOVE 60°C AND NOT MORE THAN 100°C, 9

Other information : This product is being carried under the scope of MARPOL Annex I

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 : WGK 1 slightly water endangering

(Germany) VwVwS

Not classified as carcinogenic (H350)

15.2

Major Accident Hazard : 96/82/EC Update:

Legislation Not applicable

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: ZEU_SEVES3 Update: ENVIRONMENTAL HAZARDS

E2

Quantity 1: 200 t Quantity 2: 500 t

: ZEU SEVES3 Update:

Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams),(d) heavy fuel oils (e) alternative fuels serving the same purposes and with similar properties as regards flammability and environmental hazards as the products referred to in points (a)

to (d) 34

Quantity 1: 2.500 t Quantity 2: 25.000 t

Notification status

Europe REACH : 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) : On or in compliance with the active portion of the

TSCA TSCA inventory

Canada DSL : All components of this product are on the Canadian

DSL

Australia AIIC : 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

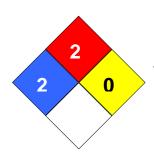
Korea KECI : Not in compliance with the inventory

Philippines PICCS : On the inventory, or in compliance with the inventory Taiwan TCSI : On the inventory, or in compliance with the inventory China IECSC : On the inventory, or in compliance with the inventory

SECTION 16: Other information

NFPA Classification : Health Hazard: 2

Fire Hazard: 2 Reactivity Hazard: 0



Further information

Legacy SDS Number : 98120

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

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

1.1000	Maria de la contra
H336	May cause drowsiness or dizziness.
H372	Causes damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

May be fatal if swallowed and enters airways.

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