

**2-Hydroxyethyl-n-Octyl Sulfide**

Version 1.8

Revision Date 2023-07-19

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 : 2-Hydroxyethyl-n-Octyl Sulfide
Material : 1121424, 1103532, 1097789, 1087149, 1027448, 1024825

EC-No.Registration number

Chemical name	CAS-No. EC-No. Index No.	Legal Entity Registration number
2-Hydroxyethyl-n-Octyl Sulfide	3547-33-9 222-598-4 603-088-00-4	Chevron Phillips Chemicals International NV 01-2119971073-40-0000

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

Relevant Identified Uses Supported : Intermediate: The substance is registered as a Transported Isolated Intermediate with Strictly Controlled Conditions (SCC) defined in Article 18(4) of Regulation EC No. 1907/2006 and must therefore be handled as such.

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
Responsible Party: Product Safety Group
Email:sds@cpchem.com

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

Skin irritation, Category 2

H315:

Causes skin irritation.

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Serious eye damage, Category 1

H318:

Causes serious eye damage.

Short-term (acute) aquatic hazard,
Category 1

H400:

Very toxic to aquatic life.

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

Hazard pictograms

:



Signal Word

: Danger

Hazard Statements

: H315
H318
H400

Causes skin irritation.

Causes serious eye damage.

Very toxic to aquatic life.

Precautionary Statements

: **Prevention:**

P264

Wash skin thoroughly after handling.

P273

Avoid release to the environment.

P280

Wear protective gloves/ eye protection/ face protection.

Response:

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

P391

Collect spillage.

Disposal:

P501

Dispose of contents/ container to an approved waste disposal plant.

Hazardous ingredients which must be listed on the label:

- 3547-33-9 2-Hydroxyethyl-n-Octyl Sulfide

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.

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.

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

Synonyms : R-874

Molecular formula : C₁₀H₂₂OS**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
2-Hydroxyethyl-n-Octyl Sulfide	3547-33-9 222-598-4 603-088-00-4	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Acute 1; H400	90 - 100	M [Acute]=1

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. Consult a physician. 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 : If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.

In case of skin contact : If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. 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

Treatment : No data available.

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SECTION 5: Firefighting measures

Flash point : 109°C (228°F)
Method: closed cup

Autoignition temperature : No data available

5.1**Extinguishing media**

Suitable extinguishing media : Carbon dioxide (CO2). Foam. 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.

Fire and explosion protection : Normal measures for preventive fire protection.

Hazardous decomposition products : Carbon oxides. Sulfur 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**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 : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

6.4**Reference to other sections**

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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 : Do not breathe vapors/dust. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

7.2**Conditions for safe storage, including any incompatibilities****Storage**

Requirements for storage areas and containers : 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**Ingredients with workplace control parameters****SK**

Zložky	Podstata	Hodnota	Kontrolné parametre	Poznámka
Methanol	SK OEL	NPEL priemerný	200 ppm, 260 mg/m3	K,

K Znamená, že faktor môže byť ľahko absorbovaný kožou. Niektoré faktory, ktoré ľahko prenikajú kožou, môžu spôsobovať až smrteľné otravy, často bez varovných príznakov (napr. anilín, nitrobenzén, nitroglykol, fenoly a pod.). Pri látkach s významným prienikom cez kožu, či už v podobe kvapalín alebo pâr, je osobitne dôležité zabrániť kožnému kontaktu.

SI

Sestavine	Osnova	Vrednost	Parametri nadzora	Pripomba
Methanol	SI OEL	MV	200 ppm, 260 mg/m3	K,
	SI OEL	KTV	800 ppm, 1.040 mg/m3	K,

K Lastnosť lažjega prehajanja snovi v organizem skozi kožo

SE

Beståndsdelar	Grundval	Värde	Kontrollparametrar	Anmärkning
Methanol	SE AFS	NGV	200 ppm, 250 mg/m3	H,
	SE AFS	KGv	250 ppm, 350 mg/m3	V, H,

H Ämnet kan lätt upptas genom huden.

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

RS

Компоненты	Основа	Величина	Параметры контроля	Заметка
Метанол	RS OEL	GVI	200 ppm, 260 mg/m3	K, EU**,

EU** Substance mentioned in indicative exposure limit values in Directive 2006/15 / EC (second list)

K This chemical substance can adversely affect the skin.

RO

Componente	Sursă	Valoare	Parametri de control	Notă
Methanol	RO OEL	TWA	200 ppm, 260 mg/m3	P,

P Contribuție substanțială la încărcarea totală din organism prin posibilă expunere cutanată.

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PT

Componentes	Bases	Valor	Parâmetros de controle	Nota
Methanol	PT OEL	VLE-MP	200 ppm,	P,
	PT OEL	VLE_CD	250 ppm,	P,
	PT DL 305/2007	oito horas	200 ppm, 260 mg/m3	Cutânea,

Cutânea Uma notação cutânea atribuída ao valor limite de exposição profissional assinala a possibilidade de absorção significativa através de pele.

P Perigo de absorção cutânea

PL

Składniki	Podstawa	Wartość	Parametry dotyczące kontroli	Uwaga
Methanol	PL NDS	NDS	100 mg/m3	
	PL NDS	NDSch	300 mg/m3	

NO

Komponenter	Grunnlag	Verdi	Kontrollparametrer	Nota
Methanol	FOR-2011-12-06-1358	GV	100 ppm, 130 mg/m3	H,

H Kjemikalier som kan tas opp gjennom huden.

NL

Bestanddelen	Basis	Waarde	Controleparameters	Opmerking
Methanol	NL WG	TGG-8 uur	133 mg/m3	H,

H Huidopname

MT

Components	Basis	Value	Control parameters	Note
Methanol	MT OEL	TWA	200 ppm, 260 mg/m3	Skin,

Skin A skin notation assigned to the OEL identifies the possibility of significant uptake through the skin.

MK

Съставки	Основа	Стойност	Параметри на контрол	Бележка
Methanol	MK OEL	MV	200 ppm, 260 mg/m3	K,

K The properties of easier transport of substances into organism through (via) the skin

LV

Sastāvdaļas	Bāze	Vērtība	Pārvaldības parametri	Piezīme
Methanol	LV OEL	AER 8 st	200 ppm, 260 mg/m3	Āda,

Āda Āda

LU

Composants	Base	Valeur	Paramètres de contrôle	Note
Methanol	LU OEL	TWA	200 ppm, 260 mg/m3	Peau,

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

LT

Komponentai	Šaltinis	Vertė	Kontrolės parametrai	Pastaba
Methanol	LT OEL	IPRD	200 ppm, 260 mg/m3	O,

O pateikimas per nepažeistą odą

IT

Componenti	Base	Valore	Parametri di controllo	Nota
Methanol	IT VLEP	TWA	200 ppm, 260 mg/m3	Cute,

Cute La notazione che riporta il termine 'cute' per un valore limite di esposizione professionale, indica la possibilità di un assorbimento significativo attraverso la cute.

IS

Komponenter	Grunnlag	Verdi	Kontrollparametrer	Nota
Methanol	IS OEL	TWA	200 ppm, 260 mg/m3	H,

H Skin notation

IE

Components	Basis	Value	Control parameters	Note
Methanol	IE OEL	OELV - 8 hrs (TWA)	200 ppm, 260 mg/m3	Sk,

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

HU

Komponensek	Bázis	Érték	Ellenőrzési paraméterek	Megjegyzés
Methanol	HU OEL	AK-érték	260 mg/m3	R+T, b, EU2, i,

b Bőrön át is felszívódik. Az AK-értékek a veszélyes anyagoknak ezt a tulajdonságát, illetve az ebből származó expozíciót csak a levegőben megengedett koncentrációjuk mértékének megfelelően veszik figyelembe

EU2 2006/15/EK irányelvben közölt érték

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

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R+T Azok az anyagok, amelyek RÖVID és TARTÓS expozíciója is egészségkárosodást okoz. Korrigált ÁK = ÁK x 8/a napi óraszám; Korrigált ÁK = ÁK x 40/a heti óraszám. A két faktor közül a szigorúbb (kisebb) értéket kell alkalmazni

HR

Sastojci	Temelj	Vrijednost	Nadzorni parametri	Bilješka
Methanol	HR OEL	GVI	200 ppm, 260 mg/m3	koža,
	HR OEL		250 ppm, 310 mg/m3	G-2, koža,

G-2 preporučljiva zaštita u trudnoći
koža Razvrstana kao tvar koja nadražuje kožu (H315) ili je takva napomena navedena u direktivama

GR

Συστατικά	Βάση	Τιμή	Παράμετροι ελέγχου	Σημείωση
Methanol	GR OEL	TWA	200 ppm, 260 mg/m3	Δ,
	GR OEL	STEL	250 ppm, 325 mg/m3	Δ,

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

GB

Components	Basis	Value	Control parameters	Note
Methanol	GB EH40	TWA	200 ppm, 266 mg/m3	Sk,
	GB EH40	STEL	250 ppm, 333 mg/m3	Sk,

Sk Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.

FR

Composants	Base	Valeur	Paramètres de contrôle	Note
Methanol	FR VLE	VME	200 ppm, 260 mg/m3	Peau, VLR contraignantes,
	FR VLE	VLCT (VLE)	1.000 ppm, 1.300 mg/m3	Peau, Valeurs limites indicatives,

Peau Risque de pénétration percutanée
Valeurs limites Valeurs limites indicatives
indicatives
VLR Valeurs limites réglementaires contraignantes
contraignantes

FI

Aineosat	Peruste	Arvo	Valvontaa koskevat muuttujat	Huomautus
Methanol	FI OEL	HTP-arvot 8h	200 ppm, 270 mg/m3	iho,
	FI OEL	HTP-arvot 15 min	250 ppm, 330 mg/m3	iho,

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

ES

Componentes	Base	Valor	Parámetros de control	Nota
Methanol	ES VLA	VLA-ED	200 ppm, 266 mg/m3	vía dérmica,

vía dérmica Vía dérmica

EE

Komponendid, osad	Alused	Väärtus	Kontrolliparameetrid	Märkused
Methanol	EE OEL	Piirnorm	200 ppm, 250 mg/m3	A,
	EE OEL	Lühiajalise kokkupuute piirnorm	250 ppm, 350 mg/m3	A,

A Naha kaudu kergesti absorbeeruvad ained

DK

Komponenter	Basis	Værdi	Kontrolparametre	Note
Methanol	DK OEL	GV	200 ppm, 260 mg/m3	H,

H Betyder, at stoffet kan optages gennem huden.

DE

Inhaltsstoffe	Grundlage	Wert	Zu überwachende Parameter	Bemerkung
Methanol	DE TRGS 900	AGW	100 ppm, 130 mg/m3	H, Y,

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

CZ

Složky	Základ	Hodnota	Kontrolní parametry	Poznámka
Methanol	CZ OEL	PEL	250 mg/m3	D,
	CZ OEL	NPK-P	1.000 mg/m3	D,

D Při expozici se významně uplatňuje pronikání faktoru kůží

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CY

Συστατικά	Βάση	Τιμή	Παράμετροι ελέγχου	Σημείωση
Methanol	CY OEL	TWA	200 ppm, 260 mg/m3	

CH

Inhaltsstoffe	Grundlage	Wert	Zu überwachende Parameter	Bemerkung
Methanol	CH SUVA	MAK-Wert	200 ppm, 260 mg/m3	H, NIOSH, INRS, SSc,
	CH SUVA	KZGW	800 ppm, 1.040 mg/m3	H, NIOSH, INRS, SSc,

H Vergiftung durch Hautresorption möglich; Bei Stoffen, welche die Haut leicht zu durchdringen vermögen, kann durch die zusätzliche Hautresorption die innere Belastung wesentlich höher werden als bei alleiniger Aufnahme durch die Atemwege.

INRS Institut National de Recherche et de Sécurité pour la prévention des accidents du travail et des maladies professionnelles

NIOSH National Institute for Occupational Safety and Health

SSc Eine Schädigung der Leibesfrucht braucht bei Einhaltung des MAK-Wertes nicht befürchtet zu werden.

BG

Съставки	Основа	Стойност	Параметри на контрол	Бележка
Methanol	BG OEL	TWA	200 ppm, 260 mg/m3	

BE

Bestanddelen	Basis	Waarde	Controleparameters	Opmerking
Methanol	BE OEL	TGG 8 hr	200 ppm, 266 mg/m3	D,
	BE OEL	TGG 15 min	250 ppm, 333 mg/m3	D,

D Opname van het agens via de huid, de slijmvliezen of de ogen vormt een belangrijk deel van de totale blootstelling. Deze opname kan het gevolg zijn van zowel direct contact als zijn aanwezigheid in de lucht.

AT

Inhaltsstoffe	Grundlage	Wert	Zu überwachende Parameter	Bemerkung
Methanol	AT OEL	MAK-TMW	200 ppm, 260 mg/m3	H,
	AT OEL	MAK-KZW	800 ppm, 1.040 mg/m3	H,

H Besondere Gefahr der Hautresorption

Biological exposure indices**SK**

Názov látky	Č. CAS	Kontrolné parametre	Doba odberu vzorky	Aktualizácia
Methanol	67-56-1	Metanol: 30 mg/l (moč)	Pri dlhodobej expozícii; po viacerých predchádzajúcich pracovných zmenáchKoniec vystavenia alebo pracovnej zmeny	2016-01-18
		Metanol: 938 µmol.l-1 (moč)	Pri dlhodobej expozícii; po viacerých predchádzajúcich pracovných zmenáchKoniec vystavenia alebo pracovnej zmeny	2016-01-18
		Metanol: 20 mg/g kreatinínu (moč)	Pri dlhodobej expozícii; po viacerých predchádzajúcich pracovných zmenáchKoniec vystavenia alebo pracovnej zmeny	2016-01-18
		Metanol: 70.7 µmol/mmol kreatinínu (moč)	Pri dlhodobej expozícii; po viacerých predchádzajúcich pracovných zmenáchKoniec vystavenia alebo pracovnej zmeny	2016-01-18

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SI

Ime snovi	Št. CAS	Parametri nadzora	Čas vzorčenja	Sprememba
Methanol	67-56-1	Metanol: 30 mg/l (Urin)	pri dolgotrajni izpostavljenosti: ob koncu delovne izmene po več zaporednih delavnikihOb koncu delovne izmene	2018-12-04

RO

Numele substanței	Nr. CAS	Parametri de control	Timp de prelevare a probei	Adus la zi
Methanol	67-56-1	Metanol: 6 mg/l (Urină)	Sfârșit schimb	2002-11-25

PT

Nome da substância	No. CAS	Parâmetros de controlo	Tempo de amostra	Atualizada em
Methanol	67-56-1	Metanol: 15 mg/l Valor basal (Urina) Não específico ()	Fim do turno	2014-11-14

IT

Denominazione della sostanza	N. CAS	Parametri di controllo	Tempo di campionamento	Aggiornamento

HU

Az anyag megnevezése	CAS szám	Ellenőrzési paraméterek	Mintavétel időpontja	Aktualizálás
Methanol	67-56-1	Metanol: 30 mg/l (húgyhólyag)	A műszak végén	2020-02-06
		Metanol: 940 µmol/l (húgyhólyag)	A műszak végén	2020-02-06

HR

Naziv tvari	CAS-br.	Nadzorni parametri	Vrijeme uzorkovanja	Ažurirati
Methanol	67-56-1	Metanol: 24.7 mmol/mol kreatinina Računato na prosječnu vrijednost kreatinina od 1,2 g/L urina. Za sve rezultate koji se izražavaju na kreatinin, koncentracije kreatinina < 0,5 g/L i > 3,0 g/L ne mogu se uzeti u obzir. (Urin)	na kraju radne smjene	2018-10-12
		Metanol: 7 mg/g kreatinina Računato na prosječnu vrijednost kreatinina od 1,2 g/L urina. Za sve rezultate koji se izražavaju na kreatinin, koncentracije kreatinina < 0,5 g/L i > 3,0 g/L ne mogu se uzeti u obzir. (Urin)	na kraju radne smjene	2018-10-12

ES

Nombre de la sustancia	No. CAS	Parámetros de control	Hora de muestreo	Puesto al día

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Methanol	67-56-1	Metanol: 15 mg/l Cuando el final de la exposición no coincida con el final de la jornada laboral, la muestra se tomará lo antes posible después de que cese la exposición real (Orina) Fondo. El indicador está generalmente presente en cantidades detectables en personas no expuestas laboralmente. Estos niveles de fondo están considerados en el valor VLB. () El indicador biológico es inespecífico puesto que puede encontrarse después de la exposición a otros agentes químicos ()	Final de la jornada laboral	2012-01-01
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DE

Stoffname	CAS-Nr.	Zu überwachende Parameter	Probennahmezeitpunkt	Stand
Methanol	67-56-1	Methanol: 15 mg/l (Urin)	bei Langzeitexposition: nach mehreren vorangegangenen Schichten Expositionsende, bzw. Schichtende	2020-03-13

CZ

Název látky	Č. CAS	Kontrolní parametry	Doba odběru vzorku	Aktualizace
Methanol	67-56-1	Methanol: 15 mg/l (moč)	Konec směny	2003-12-15
		Methanol: 0.47 mmol/l (moč)	Konec směny	2003-12-15

CH

Stoffname	CAS-Nr.	Zu überwachende Parameter	Probennahmezeitpunkt	Stand
Methanol	67-56-1	Methanol: 30 mg/l (Urin)	Expositionsende, bzw. Schichtende bei Langzeitexposition: nach mehreren vorangegangenen Schichten	2011-01-01
		Methanol: 936 µmol/l (Urin)	Expositionsende, bzw. Schichtende bei Langzeitexposition: nach mehreren vorangegangenen Schichten	2011-01-01

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

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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: Full-Face Supplied-Air Respirator. 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.
- 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: Protective suit. Complete head face and neck protection. Rubber apron. Footwear protecting against chemicals. Safety shoes.
- 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 : Clear to light amber
- Odor : Mild

Safety data

- Flash point : 109°C (228°F)
Method: closed cup
- Lower explosion limit : No data available
- Upper explosion limit : No data available
- Oxidizing properties : No
- Autoignition temperature : No data available
- Molecular formula : C₁₀H₂₂OS
- Molecular weight : 190,38 g/mol

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pH	: No data available
Pour point	: No data available
Boiling point/boiling range	: 283-285°C (541-545°F)
Vapor pressure	: 0,00 MMHG at 25°C (77°F)
Relative density	: 0,93 at 15,6 °C (60,1 °F)
Density	: 0,935 g/cm3 at 20°C (68°F)
Water solubility	: 38,13 MG/L at 25°C (77°F)
Partition coefficient: n-octanol/water	: log Pow: 3,64 at 25°C (77°F)
Solubility in other solvents	: slightly soluble
Viscosity, dynamic	: 11 cP
Relative vapor density	: No data available
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

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 decomposition if stored and applied as directed.

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10.4**Conditions to avoid** : Heat, sparks, fire, and oxidizing agents.**10.5****Materials to avoid** : Avoid oxidizing agents.**10.6****Hazardous decomposition products** : Carbon oxides
Sulfur oxides**Other data** : No decomposition if stored and applied as directed.**SECTION 11: Toxicological information****11.1****Information on toxicological effects****Acute oral toxicity**2-Hydroxyethyl-n-Octyl Sulfide : LD50: > 5.000 mg/kg
Species: Rat
Sex: male and female
Method: OECD Test Guideline 401**Acute inhalation toxicity**2-Hydroxyethyl-n-Octyl Sulfide : LC50: >6.12milligram per literExposure time: 4 h
Species: Rat
Sex: male and female
Test atmosphere: dust/mist
Method: OECD Test Guideline 403**Acute dermal toxicity**2-Hydroxyethyl-n-Octyl Sulfide : LD50: > 2.000 mg/kg
Species: Rabbit
Sex: male and female
Method: OECD Test Guideline 402**Skin irritation**

2-Hydroxyethyl-n-Octyl Sulfide : Skin irritation

Eye irritation

2-Hydroxyethyl-n-Octyl Sulfide : Irritation to eyes, reversing within 7 days

Sensitization

2-Hydroxyethyl-n-Octyl Sulfide : Did not cause sensitization on laboratory animals.

Repeated dose toxicity2-Hydroxyethyl-n-Octyl Sulfide : Species: Rat, Male and female
Sex: Male and female
Application Route: Oral

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Dose: 0, 74, 368, 1842 mg/kg/day
Exposure time: 13 wks
NOEL: > 1842 mg/kg/day
Method: OECD Test Guideline 408
No adverse effects expected

Species: Rabbit, Male and female
Sex: Male and female
Application Route: Dermal
Dose: 50, 100, 200 mg/kg/day
Exposure time: 21 days
NOEL: > 200 mg/kg/day
Method: OCED Guideline 408

Genotoxicity in vitro

2-Hydroxyethyl-n-Octyl
Sulfide

: Test Type: Ames test
Result: negative

Test Type: Chromosome aberration test in vitro
Result: negative

Test Type: Mouse lymphoma assay
Result: negative

Test Type: Sister Chromatid Exchange Assay
Result: negative

Reproductive toxicity

2-Hydroxyethyl-n-Octyl
Sulfide

: This information is not available.

Developmental Toxicity

2-Hydroxyethyl-n-Octyl
Sulfide

: Species: Rat
Application Route: oral gavage
Dose: 0, 100, 300, 1000 mg/kg.day
Number of exposures: daily
Test period: GD 6-15
Method: OECD Guideline 414
NOAEL Teratogenicity: 300 mg/kg/day
NOAEL Maternal: 1000 mg/kg/day

Species: Rat
Application Route: oral gavage
Dose: 47, 187. 748 mg/kg/day
Number of exposures: daily
Test period: GD 5-15
Method: OECD Guideline 414
NOAEL Teratogenicity: 748 mg/kg/day
NOAEL Maternal: 748 mg/kg/day

2-Hydroxyethyl-n-Octyl Sulfide**Aspiration toxicity**

: May be harmful if swallowed and enters airways.

CMR effects

2-Hydroxyethyl-n-Octyl

: Carcinogenicity: Not available

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Sulfide

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

11.2**Information on other hazards****2-Hydroxyethyl-n-Octyl Sulfide****Further information**

Endocrine disrupting properties

: Solvents may degrease the skin.
: 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**

2-Hydroxyethyl-n-Octyl Sulfide

: LC50: 2,9 mg/l
Exposure time: 96 h
Species: Salmo gairdneri (Rainbow trout)
flow-through test Method: EPA OPP 72-1

LC50: 2,7 mg/l
Exposure time: 96 h
Species: Lepomis macrochirus (Bluegill sunfish)
flow-through test Method: EPA OPP 72-1

Toxicity to daphnia and other aquatic invertebrates

2-Hydroxyethyl-n-Octyl Sulfide

: EC50: 0,38 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)
flow-through test

Toxicity to algae

2-Hydroxyethyl-n-Octyl Sulfide

: EC50 (calculated): 5,33 mg/l
Exposure time: 96 h
Species: Chlamydomonas angulosa (Green algae)
Method: QSAR modeled data

M-Factor

2-(octylthio)ethanol

: M-Factor (Acute Aquat. Tox.) 1

12.2**Persistence and degradability**

2-Hydroxyethyl-n-Octyl Sulfide

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Biodegradability

2-Hydroxyethyl-n-Octyl Sulfide : aerobic
Result: Readily biodegradable.
99,8 %
Testing period: 28 d
Method: OECD Test Guideline 301B

12.3**Bioaccumulative potential****Bioaccumulation**

2-Hydroxyethyl-n-Octyl Sulfide : Bioconcentration factor (BCF): 117
Method: QSAR modeled data
Information refers to the main ingredient.

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

2-Hydroxyethyl-n-Octyl Sulfide : No data available

12.5**Results of PBT and vPvB assessment**

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

12.6**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 : Very toxic to aquatic life.

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

Short-term (acute) aquatic hazard
2-Hydroxyethyl-n-Octyl Sulfide : Very toxic to aquatic life.

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

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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.

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)

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (2-HYDROXYETHYL-N-OCTYL SULFIDE), 9, III

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (2-HYDROXYETHYL-N-OCTYL SULFIDE), 9, III, (109 °C c.c.), MARINE POLLUTANT, (2-HYDROXYETHYL-N-OCTYL SULFIDE)

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (2-HYDROXYETHYL-N-OCTYL SULFIDE), 9, III

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

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (2-HYDROXYETHYL-N-OCTYL SULFIDE), 9, III, (-)

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

90, UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (2-HYDROXYETHYL-N-OCTYL SULFIDE), 9, III

ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE

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OF DANGEROUS GOODS BY INLAND WATERWAYS)

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (2-HYDROXYETHYL-N-OCTYL SULFIDE), 9, III

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 3 highly water endangering**15.2****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:
ENVIRONMENTAL HAZARDS
E1
Quantity 1: 100 t
Quantity 2: 200 t**Notification status**

Europe REACH : On the inventory, or in compliance with the inventory

Switzerland CH INV : On the inventory, or in compliance with the inventory

United States of America (USA) : On the inventory, or in compliance with the inventory

TSCA

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

Other AICS : On the inventory, or in compliance with the inventory

New Zealand NZIoC : On the inventory, or in compliance with the inventory

Japan ENCS : On the inventory, or in compliance with the inventory

Korea KECI : 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

2-Hydroxyethyl-n-Octyl Sulfide

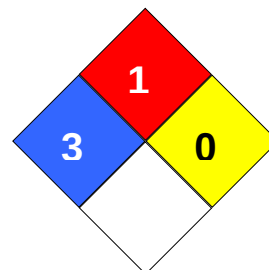
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Taiwan TCSI : Not in compliance with the inventory

SECTION 16: Other information

NFPA Classification : Health Hazard: 3
Fire Hazard: 1
Reactivity Hazard: 0

**Further information**

Legacy SDS Number : 630460

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%
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	TWA	Time Weighted Average

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	Substances in China		
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.

H315 Causes skin irritation.
H318 Causes serious eye damage.
H400 Very toxic to aquatic life.