

Version 3.2 Revision Date 2019-06-13

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

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

1.1

Product information

Product Name : Scentinel® A Gas Odorant

Material : 1119674, 1119564, 1106807, 1098462, 1102596, 1086453,

1098407, 1086452, 1102264, 1072060, 1098463, 1103512, 1070006, 1024777, 1024776, 1024775, 1024774, 1029441,

1029442, 1029443, 1029444, 1029445

EC-No.Registration number

Chemical name	CAS-No.	Legal Entity
	EC-No.	Registration number
	Index No.	
Ethyl Mercaptan	75-08-1	Chevron Phillips Chemicals International NV
	200-837-3	01-2119491286-30-0000
	016-022-00-9	

1.2

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

Relevant Identified Uses

Supported

Manufacture of Ethanethiol used under Strictly Controlled

Conditions

Use at Industrial Site - Intermediate

Injection as odorant in Liquified Petroleum Gas under

Strictly Controlled Conditions - Industrial

Injection as odorant in Liquified Petroleum Gas under

Strictly Controlled Conditions – Consumer

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

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SDS Requests: (800) 852-5530 Technical Information: (832) 813-4862 Responsible Party: Product Safety Group

Email:sds@cpchem.com

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Emergency telephone:

Health:

866.442.9628 (North America) 1.832.813.4984 (International)

Transport:

CHEMTREC 800.424.9300 or 703.527.3887(int'l)

Asia: CHEMWATCH (+612 9186 1132) China: 0532 8388 9090 EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

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

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

Argentina: +(54)-1159839431

Responsible Department : Product Safety and Toxicology Group

E-mail address : SDS@CPChem.com Website : www.CPChem.com

ODOR-FADE WARNING

A GAS LEAK CAN CAUSE A FIRE OR EXPLOSION RESULTING IN SERIOUS INJURY OR DEATH.

Be aware that the stenching chemical added to gas to make it detectable may not warn of a gas leak or the presence of propane or natural gas to all persons in every instance.

Instances where the odorant in an odorized gas may be undetectable include:

- Odor intensity may fade or be eliminated for a variety of chemical and physical causes, including the oxidation of rusting pipes, adsorption into or sticking onto the interior of pipes or appliances, or absorption into liquids.
- Contact with soil in underground leaks may de-odorize or remove odorant from the gas.
- Some people have a diminished ability, or inability to smell the stench. Factors that negatively affect a person's sense of smell include age, gender, medical conditions, and alcohol/tobacco usage.
- The stench of odorized gas may not awaken sleeping persons.
- Other odors may mask or hide the stench.
- Exposure to the odor for even a short period of time, may cause nasal fatigue, where a person can no longer smell the stench.

Gas detectors listed by the Underwriters Laboratories (UL) can be used as an extra measure of safety for detecting gas leaks, especially under conditions where the odorant alone may not provide an adequate warning. Gas detectors emit a loud, shrill sound when gas is present and do not depend on sense of smell. Because the odor intensity can fade or people may have problems with their sense of smell, we recommend installing, per manufacturer's instructions, one or more combustible gas detectors, in suitable locations to ensure adequate coverage to detect gas leaks.

Educate yourself, your employees, and your customers with the content of this warning and other important facts associated with the so-called "odor-fade phenomenon."

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SECTION 2: Hazards identification

2.1

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

Flammable liquids, Category 1 H224:

Extremely flammable liquid and vapor.

Acute toxicity, Category 4 H302:

Harmful if swallowed.

Acute toxicity, Category 4 H332:

Harmful if inhaled.

Skin sensitization, Sub-category 1B H317:

May cause an allergic skin reaction.

H400:

Short-term (acute) aquatic hazard, H400

Category 1 Very toxic to aquatic life.

Long-term (chronic) aquatic hazard, H410:

Category 1 Very toxic to aquatic life with long lasting effects.

2.2

Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms :







Signal Word : Danger

Hazard Statements : H224 Extremely flammable liquid and vapor.

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H332 Harmful if inhaled.

H410 Very toxic to aquatic life with long lasting

effects.

Precautionary Statements : Prevention:

P210 Keep away from heat/sparks/open

flames/hot surfaces. No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving

equipment.

P243 Take precautionary measures against static

discharge.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/

eye protection/ face protection.

Response:

off immediately all contaminated clothing.

Rinse skin with water/ shower.

P304 + P340 IF INHALED: Remove victim to fresh air

and keep at rest in a position comfortable

for breathing.

P312 Call a POISON CENTER/doctor if you feel

unwell.

Storage:

P403 + P235

Store in a well-ventilated place. Keep cool.

Disposal:

P501 Dispose of contents/ container to an

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approved waste disposal plant.

Hazardous ingredients which must be listed on the label:

• 75-08-1 Ethyl Mercaptan

Additional Labeling:

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 1 %

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 1 %

SECTION 3: Composition/information on ingredients

3.1 - 3.2

Substance or Mixture

Synonyms : ETSH

Ethanethiol Ethyl Mercaptan

Molecular formula : C2H6S

Hazardous ingredients

Chemical name	CAS-No.	Classification	Concentration
	EC-No.	(REGULATION (EC) No	[wt%]
	Index No.	1272/2008)	
Ethyl Mercaptan	75-08-1	Flam. Liq. 1; H224	99
	200-837-3	Acute Tox. 4; H302	
	016-022-00-9	Acute Tox. 4; H332	
		Skin Sens. 1B; H317	
		Aquatic Acute 1; H400	
		Aquatic Chronic 1; H410	

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

SECTION 4: First aid measures

4.1

Description of first-aid measures

General advice : Move out of dangerous area. Consult a physician. Show this

material safety data sheet to the doctor in attendance. Symptoms of poisoning may appear several hours later. Do

not leave the victim unattended.

If inhaled : Call a physician or poison control center immediately. If

unconscious, place in recovery position and seek medical

advice.

In case of skin contact : If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Immediately flush eye(s) with plenty of water. Remove contact

lenses. Protect unharmed eye. Keep eye wide open while

rinsing. If eye irritation persists, consult a specialist.

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If swallowed : Keep respiratory tract clear. Never give anything by mouth to

an unconscious person. If symptoms persist, call a physician.

Take victim immediately to hospital.

SECTION 5: Firefighting measures

Flash point : $-48 \, ^{\circ}\text{C} \, (-54 \, ^{\circ}\text{F})$

Autoignition temperature : 295 °C (563 °F)

5.1

Extinguishing media

Suitable extinguishing

media

: Alcohol-resistant foam. Carbon dioxide (CO2). 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 an open flame or any other incandescent material. Take necessary action to avoid static electricity

discharge (which might cause ignition of organic vapors). Use only explosion-proof equipment. Keep away from open flames,

hot surfaces and sources of ignition.

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. 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

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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).

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

contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with

local and national regulations.

Advice on protection against fire and explosion

Do not spray on an open flame or any other incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only explosion-proof equipment. Keep away from open flames,

hot surfaces and sources of ignition.

7.2

Conditions for safe storage, including any incompatibilities

Storage

Requirements for storage areas and containers

Prevent unauthorized access. 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

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_	orkplace control para	meters		
014				
SK Zložky	Podstata	Hodnota	Kontrolné parametre	Poznámka
Ethyl Mercaptan	SK OEL	NPEL priemerný	0,5 ppm, 1,3 mg/m3	FUZIIAIIIKA
Ltriyi Mercaptari	SK OEL	NPEL krátkodobý	1 ppm, 2,6 mg/m3	
SI	- SIX OLL	TH EE Manoadby	1 pp.m, 2,0 mg/mo	
Sestavine	Osnova	Vrednost	Parametri nadzora	Pripomba
Ethyl Mercaptan	SI OEL	MV	0,5 ppm, 1,3 mg/m3	
РТ				
Componentes	Bases	Valor	Parâmetros de	Nota
Componentes	Busco	Vaioi	controlo	
Ethyl Mercaptan	PT OEL	VLE-MP	0,5 ppm,	irritação do TRS, afeçã do SNC,
afeção do SNC afeção do sistema irritação do TRS	a nervoso central respiratório superior			,
PL				
Składniki	Podstawa	Wartość	Parametry dotyczące	Uwaga
Ethyd Morgantan	DI AIDC	NDC	kontroli	
Ethyl Mercaptan	PL NDS	NDS	1 mg/m3	
	PL NDS	NDSch	2 mg/m3	<u> </u>
NO Komponentor	0	\/ord:		Noto
Komponenter	Grunnlag FOR-2011-12-06-	Verdi	Kontrollparametrer	Nota
Ethyl Mercaptan	1358	GV	0,5 ppm, 1 mg/m3	
LV				
Sastāvdaļas	Bāze	Vērtība	Pārvaldības parametri	Piezīme
Ethyl Mercaptan	LV OEL	AER 8 st	1 mg/m3	
LT	1	•		
Komponentai	Šaltinis	Vertė	Kontrolės parametrai	Pastaba
Ethyl Mercaptan	LT OEL	IPRD	1 mg/m3	O,
IE .	l Davis	T.v.,	Control norometers	Note
Components	Basis	Value	Control parameters	Note
Ethyl Mercaptan	IE OEL	OELV - 8 hrs (TWA)	0,5 ppm, 1 mg/m3	Note
				Note
Ethyl Mercaptan	IE OEL	OELV - 8 hrs (TWA)	0,5 ppm, 1 mg/m3 2 ppm, 3 mg/m3	Note
Ethyl Mercaptan	IE OEL	OELV - 8 hrs (TWA)	0,5 ppm, 1 mg/m3 2 ppm, 3 mg/m3 Ellenőrzési	Megjegyzés
Ethyl Mercaptan HU Komponensek	IE OEL IE OEL Bázis	OELV - 8 hrs (TWA) OELV - 15 min (STEL) Érték	0,5 ppm, 1 mg/m3 2 ppm, 3 mg/m3 Ellenőrzési paraméterek	Megjegyzés
Ethyl Mercaptan	IE OEL IE OEL Bázis HU OEL	OELV - 8 hrs (TWA) OELV - 15 min (STEL) Érték AK-érték	0,5 ppm, 1 mg/m3 2 ppm, 3 mg/m3 Ellenőrzési paraméterek 1 mg/m3	
Ethyl Mercaptan HU Komponensek Ethyl Mercaptan i Ingerlő anyag (izg	IE OEL IE OEL Bázis	OELV - 8 hrs (TWA) OELV - 15 min (STEL) Érték AK-érték CK-érték	0,5 ppm, 1 mg/m3 2 ppm, 3 mg/m3 Ellenőrzési paraméterek	Megjegyzés i,
Ethyl Mercaptan HU Komponensek Ethyl Mercaptan i Ingerlő anyag (izg	IE OEL IE OEL Bázis HU OEL HU OEL gatja a bőrt, nyálkahártyát, szeme	OELV - 8 hrs (TWA) OELV - 15 min (STEL) Érték AK-érték CK-érték et vagy mindhármat)	0,5 ppm, 1 mg/m3 2 ppm, 3 mg/m3 Ellenőrzési paraméterek 1 mg/m3 1 mg/m3	Megjegyzés i, i,
Ethyl Mercaptan HU Komponensek Ethyl Mercaptan i Ingerlő anyag (izg	IE OEL IE OEL Bázis HU OEL HU OEL gatja a bőrt, nyálkahártyát, szeme	OELV - 8 hrs (TWA) OELV - 15 min (STEL) Érték AK-érték CK-érték et vagy mindhármat)	0,5 ppm, 1 mg/m3 2 ppm, 3 mg/m3 Ellenőrzési paraméterek 1 mg/m3 1 mg/m3	Megjegyzés i,
Ethyl Mercaptan HU Komponensek Ethyl Mercaptan i Ingerlő anyag (izg	IE OEL IE OEL Bázis HU OEL HU OEL gatja a bőrt, nyálkahártyát, szeme	OELV - 8 hrs (TWA) OELV - 15 min (STEL) Érték AK-érték CK-érték et vagy mindhármat)	0,5 ppm, 1 mg/m3 2 ppm, 3 mg/m3 Ellenőrzési paraméterek 1 mg/m3 1 mg/m3	Megjegyzés i, i,
Ethyl Mercaptan HU Komponensek Ethyl Mercaptan i Ingerlő anyag (izg GR Συστατικά Ethyl Mercaptan	IE OEL IE OEL Bázis HU OEL HU OEL gatja a bőrt, nyálkahártyát, szeme Bάση GR OEL	OELV - 8 hrs (TWA) OELV - 15 min (STEL) Érték AK-érték CK-érték et vagy mindhármat) Tiµή TWA	0,5 ppm, 1 mg/m3 2 ppm, 3 mg/m3 Ellenőrzési paraméterek 1 mg/m3 1 mg/m3 Παράμετροι ελέγχου 10 ppm, 25 mg/m3	Megjegyzés i, i,
Ethyl Mercaptan HU Komponensek Ethyl Mercaptan i Ingerlő anyag (izg GR Συστατικά Ethyl Mercaptan	IE OEL IE OEL Bázis HU OEL HU OEL gatja a bőrt, nyálkahártyát, szeme Bάση GR OEL	OELV - 8 hrs (TWA) OELV - 15 min (STEL) Érték AK-érték CK-érték et vagy mindhármat) Tiµή TWA	0,5 ppm, 1 mg/m3 2 ppm, 3 mg/m3 Ellenőrzési paraméterek 1 mg/m3 1 mg/m3 Παράμετροι ελέγχου 10 ppm, 25 mg/m3	Megjegyzés i, i,
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Ethyl Mercaptan HU Komponensek Ethyl Mercaptan i Ingerlő anyag (izg GR Συστατικά Ethyl Mercaptan GB Components	IE OEL IE OEL Bázis HU OEL HU OEL gatja a bőrt, nyálkahártyát, szeme Bάση GR OEL GR OEL Basis	OELV - 8 hrs (TWA) OELV - 15 min (STEL) Érték AK-érték CK-érték et vagy mindhármat) TIµή TWA STEL Value	0,5 ppm, 1 mg/m3 2 ppm, 3 mg/m3 Ellenőrzési paraméterek 1 mg/m3 1 mg/m3 Παράμετροι ελέγχου 10 ppm, 25 mg/m3 10 ppm, 25 mg/m3 Control parameters	Megjegyzés i, i, Σημείωση
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Ethyl Mercaptan HU Komponensek Ethyl Mercaptan i Ingerlő anyag (izg GR Συστατικά Ethyl Mercaptan GB Components Ethyl Mercaptan	IE OEL IE OEL Bázis HU OEL HU OEL gatja a bőrt, nyálkahártyát, szeme Bάση GR OEL GR OEL Basis GB EH40 GB EH40	OELV - 8 hrs (TWA) OELV - 15 min (STEL) Érték AK-érték CK-érték et vagy mindhármat) Tiµή TWA STEL Value TWA STEL	0,5 ppm, 1 mg/m3 2 ppm, 3 mg/m3 Ellenőrzési paraméterek 1 mg/m3 1 mg/m3 Παράμετροι ελέγχου 10 ppm, 25 mg/m3 10 ppm, 25 mg/m3 Control parameters 0,5 ppm, 1,3 mg/m3 2 ppm, 5,2 mg/m3	Megjegyzés i, i, Σημείωση
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Ethyl Mercaptan HU Komponensek Ethyl Mercaptan i Ingerlő anyag (izg GR Συστατικά Ethyl Mercaptan GB Components Ethyl Mercaptan FR Composants Ethyl Mercaptan ormal Valeurs limites in-	IE OEL IE OEL Bázis HU OEL HU OEL gatja a bőrt, nyálkahártyát, szeme Bάση GR OEL GR OEL Basis GB EH40 GB EH40 Base FR VLE	OELV - 8 hrs (TWA) OELV - 15 min (STEL) Érték AK-érték CK-érték et vagy mindhármat) TIµÝ TWA STEL Value TWA STEL Valeur	0,5 ppm, 1 mg/m3 2 ppm, 3 mg/m3 Ellenőrzési paraméterek 1 mg/m3 1 mg/m3 Παράμετροι ελέγχου 10 ppm, 25 mg/m3 10 ppm, 25 mg/m3 Control parameters 0,5 ppm, 1,3 mg/m3 2 ppm, 5,2 mg/m3 Paramètres de contrôle 0,5 ppm, 1 mg/m3	Megjegyzés i, i, Note
HU Komponensek Ethyl Mercaptan i Ingerlő anyag (izg GR Συστατικά Ethyl Mercaptan GB Components Ethyl Mercaptan FR Composants Ethyl Mercaptan ormal Valeurs limites in FI Aineosat	IE OEL IE OEL Bázis HU OEL HU OEL Gatja a bőrt, nyálkahártyát, szeme Bάση GR OEL GR OEL Basis GB EH40 GB EH40 GB EH40 Base FR VLE dicatives Peruste	OELV - 8 hrs (TWA) OELV - 15 min (STEL) Érték AK-érték CK-érték et vagy mindhármat) TiµÝ TWA STEL Value TWA STEL Valeur VME	0,5 ppm, 1 mg/m3 2 ppm, 3 mg/m3 Ellenőrzési paraméterek 1 mg/m3 1 mg/m3 Παράμετροι ελέγχου 10 ppm, 25 mg/m3 10 ppm, 25 mg/m3 Control parameters 0,5 ppm, 1,3 mg/m3 2 ppm, 5,2 mg/m3 Paramètres de contrôle 0,5 ppm, 1 mg/m3 Valvontaa koskevat muuttujat	Megjegyzés i, i, Σημείωση Note Note normal,
Ethyl Mercaptan HU Komponensek Ethyl Mercaptan i Ingerlő anyag (izg GR Συστατικά Ethyl Mercaptan GB Components Ethyl Mercaptan FR Composants Ethyl Mercaptan normal Valeurs limites in FI Aineosat Ethyl Mercaptan	IE OEL IE OEL Bázis HU OEL HU OEL Gatja a bőrt, nyálkahártyát, szeme Bάση GR OEL GR OEL GR OEL Basis GB EH40 GB EH40 GB EH40 Base FR VLE	OELV - 8 hrs (TWA) OELV - 15 min (STEL) Érték AK-érték CK-érték et vagy mindhármat) TiµÝ TWA STEL Value TWA STEL Valeur VME	0,5 ppm, 1 mg/m3 2 ppm, 3 mg/m3 Ellenőrzési paraméterek 1 mg/m3 1 mg/m3 Παράμετροι ελέγχου 10 ppm, 25 mg/m3 10 ppm, 25 mg/m3 Control parameters 0,5 ppm, 1,3 mg/m3 2 ppm, 5,2 mg/m3 Paramètres de contrôle 0,5 ppm, 1 mg/m3	Megjegyzés i, i, Σημείωση Note Note normal,
Ethyl Mercaptan HU Komponensek Ethyl Mercaptan i Ingerlő anyag (izg GR Συστατικά Ethyl Mercaptan GB Components Ethyl Mercaptan FR Composants Ethyl Mercaptan normal Valeurs limites infiliations FI Aineosat Ethyl Mercaptan	IE OEL IE OEL Bázis HU OEL HU OEL gatja a bőrt, nyálkahártyát, szeme Bάση GR OEL GR OEL Basis GB EH40 GB EH40 Base FR VLE dicatives Peruste FI OEL	OELV - 8 hrs (TWA) OELV - 15 min (STEL) Érték AK-érték CK-érték et vagy mindhármat) TIµÝ TWA STEL Value TWA STEL Valeur VME Arvo HTP-arvot 15 min	0,5 ppm, 1 mg/m3 2 ppm, 3 mg/m3 Ellenőrzési paraméterek 1 mg/m3 1 mg/m3 Παράμετροι ελέγχου 10 ppm, 25 mg/m3 10 ppm, 25 mg/m3 Control parameters 0,5 ppm, 1,3 mg/m3 2 ppm, 5,2 mg/m3 Paramètres de contrôle 0,5 ppm, 1 mg/m3 Valvontaa koskevat muuttujat 0,5 ppm, 1,3 mg/m3	Megjegyzés i, i, Σημείωση Note Note normal,
Ethyl Mercaptan HU Komponensek Ethyl Mercaptan i Ingerlő anyag (izg GR Συστατικά Ethyl Mercaptan GB Components Ethyl Mercaptan FR Composants Ethyl Mercaptan normal Valeurs limites in FI Aineosat Ethyl Mercaptan	IE OEL IE OEL Bázis HU OEL HU OEL Gatja a bőrt, nyálkahártyát, szeme Bάση GR OEL GR OEL Basis GB EH40 GB EH40 GB EH40 Base FR VLE dicatives Peruste	OELV - 8 hrs (TWA) OELV - 15 min (STEL) Érték AK-érték CK-érték et vagy mindhármat) TiµÝ TWA STEL Value TWA STEL Valeur VME	0,5 ppm, 1 mg/m3 2 ppm, 3 mg/m3 Ellenőrzési paraméterek 1 mg/m3 1 mg/m3 Παράμετροι ελέγχου 10 ppm, 25 mg/m3 10 ppm, 25 mg/m3 Control parameters 0,5 ppm, 1,3 mg/m3 2 ppm, 5,2 mg/m3 Paramètres de contrôle 0,5 ppm, 1 mg/m3 Valvontaa koskevat muuttujat	Megjegyzés i, i, Σημείωση Note Note normal,

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EE

Komponendid, osad	Alused	Väärtus	Kontrolliparameetrid	Märkused
Ethyl Mercaptan	EE OEL	Piirnorm	0,5 ppm, 1 mg/m3	C,

C Kantserogeensed ained

DK

Komponenter	Basis	Værdi	Kontrolparametre	Note
Ethyl Mercaptan	DK OEL	GV	0,5 ppm, 1 mg/m3	

DE

Inhaltsstoffe	Grundlage	Wert	Zu überwachende Parameter	Bemerkung
Ethyl Mercaptan	DE TRGS 900	AGW	0,5 ppm, 1,3 mg/m3	DFG,

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

СН

Inhaltsstoffe	Grundlage	Wert	Zu überwachende Parameter	Bemerkung
Ethyl Mercaptan	CH SUVA	MAK-Wert	0,5 ppm, 1,3 mg/m3	
	CH SUVA	KZGW	1 ppm, 2,6 mg/m3	

BE

Bestanddelen	Basis	Waarde	Controleparameters	Opmerking
Ethyl Mercaptan	BE OEL	TGG 8 hr	0,5 ppm, 1,3 mg/m3	

ΑT

Inhaltsstoffe	Grundlage	Wert	Zu überwachende Parameter	Bemerkung
Ethyl Mercaptan	AT OEL	MAK-KZW	0,5 ppm, 1,3 mg/m3	
	AT OEL	MAK-TMW	0,5 ppm, 1,3 mg/m3	

DNEL : End Use: Workers

Routes of exposure: Inhalation

Potential health effects: Chronic effects, Systemic effects

Value: 14,5 mg/m3

DNEL : End Use: Workers

Routes of exposure: Skin contact

Potential health effects: Chronic effects, Systemic effects

Value: 2,06 mg/kg

DNEL : End Use: Workers

Routes of exposure: Inhalation

Potential health effects: Chronic effects, Local effects

Value: 18,6 mg/m3

PNEC : Fresh water

Value: 0,0001 mg/l

PNEC : Marine water

Value: 0,00001 mg/l

PNEC : Fresh water sediment

Value: 0,00049 mg/kg

PNEC : Marine sediment

Value: 0,000049 mg/kg

PNEC : Soil

Value: 0,000039 mg/kg

8.2

Exposure controls

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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 : Wear a supplied-air NIOSH approved respirator unless

ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure. Wear a NIOSH approved respirator that provides protection when working with this material if exposure to harmful levels of airborne material may occur, such as:. Air-Purifying Respirator for Organic Vapors. Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirators

may not provide adequate protection.

Hand protection : The suitability for a specific workplace should be discussed

with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

is any indication of degradation of offernior preakting agric

Eye wash bottle with pure water. Tightly fitting safety goggles. Wear face-shield and protective suit for abnormal processing

problems.

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:. Remove and wash contaminated clothing before re-use. Skin should be washed after contact. Flame retardant protective clothing. Workers

should wear antistatic footwear.

Hygiene measures : Avoid contact with skin, eyes and clothing. When using do not

eat or drink. When using do not smoke. Wash hands before

breaks and immediately after handling the product.

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

SECTION 9: Physical and chemical properties

9.1

Information on basic physical and chemical properties

Appearance

Eye protection

Form : Liquid Physical state : Liquid

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Color : Colorless Odor : Repulsive

Safety data

Flash point : -48 °C (-54 °F)

Lower explosion limit : 2,8 %(V)

Upper explosion limit : 18 %(V)

Oxidizing properties : No

Autoignition temperature : 295 °C (563 °F)

Molecular formula : C2H6S

Molecular weight : 62,14 g/mol

pH : Not applicable

Pour point : No data available

Boiling point/boiling range : 35 °C (95 °F)

Vapor pressure : 16,20 PSI

at 37,8 °C (100,0 °F)

Relative density : 0,84

at 15,6 °C (60,1 °F)

Water solubility : Negligible

Partition coefficient: n-

octanol/water

: No data available

Viscosity, kinematic : No data available

Relative vapor density : 2,1

(Air = 1.0)

Evaporation rate : 1

Percent volatile : > 99 %

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.

Further information: No decomposition if stored and applied as

directed.

Hazardous reactions: Vapors may form explosive mixture with

air.

10.4

Conditions to avoid : Heat, flames and sparks.

10.5

Materials to avoid : May react with oxygen and strong oxidizing agents, such as

chlorates, nitrates, peroxides, etc.

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

Ethyl Mercaptan : LD50: 682 mg/kg

Species: Rat Sex: male

Method: Fixed Dose Method

Acute inhalation toxicity

Ethyl Mercaptan : LC50: 11,23 mg/l

Exposure time: 4 h Species: Rat Sex: male

Test atmosphere: vapor

Skin irritation

Ethyl Mercaptan : slight irritation.

Eye irritation

Ethyl Mercaptan : Information given is based on data obtained from similar

substances.

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Sensitization

Ethyl Mercaptan : The product is a skin sensitizer, sub-category 1B.

Information given is based on data obtained from similar

substances.

Repeated dose toxicity

Ethyl Mercaptan : Species: Rat, Male and female

Sex: Male and female Application Route: Inhalation Dose: 25, 100, 400 ppm Exposure time: 13 wks

Number of exposures: 6 hr/d, 5 d/wk

NOEL: 100 ppm

Lowest observable effect level: 400 ppm

Method: OECD Guideline 413

Information given is based on data obtained from similar

substances.

Species: Rat, Male and female

Sex: Male and female Application Route: Oral Dose: 0, 10, 50, 200 mg/kg Exposure time: 42-53 days

NOEL: 50 mg/kg

Method: OECD Guideline 422

Information given is based on data obtained from similar

substances.

Species: Rat, Male and female

Sex: Male and female

Application Route: Inhalation Dose: 9, 97, 196 ppm Exposure time: 13 wks

Number of exposures: 6 hr/d, 5 d/wk

NOEL: >=196 ppm

Method: OECD Guideline 413

Information given is based on data obtained from similar

substances.

Species: Rat, Male and female

Sex: Male and female Application Route: Inhalation Dose: 0.03, 0.26, 0.55 mg/L Exposure time: 13 wks

Number of exposures: 6 hr/d, 5 d/wk

NOEL: 0,03 mg/l

Method: OECD Test Guideline 413

Information given is based on data obtained from similar

substances.

Genotoxicity in vitro

Ethyl Mercaptan : Test Type: Ames test

Metabolic activation: with and without metabolic activation Method: Mutagenicity (Escherichia coli - reverse mutation

assay)

Result: negative

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Test Type: Mouse lymphoma assay Method: OECD Guideline 476

Result: Ambiguous

Test Type: Sister Chromatid Exchange Assay

Metabolic activation: with and without metabolic activation

Result: positive

Genotoxicity in vivo

Ethyl Mercaptan : Test Type: Micronucleus test

Species: Mouse

Method: Mutagenicity (micronucleus test)

Result: negative

Reproductive toxicity

Ethyl Mercaptan : Species: Rat

Sex: male and female Application Route: Oral diet Dose: 0, 10, 50, 200 mg/kg Exposure time: 42-53 days Number of exposures: once daily Method: OECD Guideline 422 NOAEL Parent: 200 mg/kg NOAEL F1: 50 mg/kg

Information given is based on data obtained from similar

substances.

Developmental Toxicity

Ethyl Mercaptan : Species: Rat

Application Route: Inhalation Dose: 0, 0.037, 0.28, or 0.56 mg/L Number of exposures: 6 hrs/d

Test period: GD 6-19

Method: OECD Guideline 414 NOAEL Teratogenicity: > 0,56 mg/l

Information given is based on data obtained from similar

substances.

Species: Rat

Application Route: Inhalation Dose: 0, 10, 100, 200 ppm Number of exposures: 6 hrs/d

Test period: GD 6-19

Method: OECD Guideline 414 NOAEL Teratogenicity: > 200 ppm NOAEL Maternal: > 200 ppm

Information given is based on data obtained from similar

substances.

Aspiration toxicity

Ethyl Mercaptan : May be harmful if swallowed and enters airways.

CMR effects

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Ethyl Mercaptan : Carcinogenicity: Not available

Mutagenicity: Not mutagenic in Ames Test.

Teratogenicity: Animal testing did not show any effects on

fetal development.

Reproductive toxicity: Animal testing did not show any effects

on fertility.

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Further information : Solvents may degrease the skin.

SECTION 12: Ecological information

12.1

Toxicity

Toxicity to fish

Ethyl Mercaptan : 2,4 mg/l

Exposure time: 96 h

Species: Oncorhynchus mykiss (rainbow trout)

Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates

Ethyl Mercaptan : EC50: < 0,1 mg/l

Exposure time: 48 h

Species: Daphnia magna (Water flea) static test Method: OECD Test Guideline 202

Toxicity to algae

Ethyl Mercaptan : EC50: 3 mg/l

Exposure time: 72 h

Species: Pseudokirchneriella subcapitata (green algae)

Method: OECD Test Guideline 201

M-Factor

ethanethiol : M-Factor (Acute Aquat. Tox.) 10

M-Factor (Chron. Aquat. Tox.) 10

12.2

Persistence and degradability

Biodegradability : This material is not expected to be readily biodegradable.

12.3

Bioaccumulative potential

Elimination information (persistence and degradability)

Bioaccumulation : This material is not expected to bioaccumulate.

12.4

Mobility in soil

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Mobility

Ethyl Mercaptan : No data available

12.5

Results of PBT and vPvB assessment

Results of PBT assessment

Ethyl Mercaptan : Non-classified PBT substance, Non-classified vPvB substance

12.6

Other adverse effects

Additional ecological

information

: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Very toxic to aquatic life

with long lasting effects.

Ecotoxicology Assessment

Short-term (acute) aquatic hazard

Ethyl Mercaptan : Very toxic to aquatic life.

Long-term (chronic) aquatic hazard

Ethyl Mercaptan : Very toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1

Waste treatment methods

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

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

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.

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

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).

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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)

UN2363, ETHYL MERCAPTAN, 3, I, MARINE POLLUTANT, (ETHYL MERCAPTAN)

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

UN2363, ETHYL MERCAPTAN, 3, I, (-48 °C), MARINE POLLUTANT, (ETHYL MERCAPTAN)

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

UN2363, ETHYL MERCAPTAN, 3, I

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

UN2363, ETHYL MERCAPTAN, 3, I, (D/E), ENVIRONMENTALLY HAZARDOUS, (ETHYL MERCAPTAN)

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

UN2363, ETHYL MERCAPTAN, 3, I, ENVIRONMENTALLY HAZARDOUS, (ETHYL MERCAPTAN)

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

UN2363, ETHYL MERCAPTAN, 3, I, ENVIRONMENTALLY HAZARDOUS, (ETHYL MERCAPTAN)

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

SECTION 15: Regulatory information

15.1

Safety, health and environmental regulations/legislation specific for the substance or mixture National legislation

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

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

15.2

Chemical Safety Assessment

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Components : ethanethiol A Chemical Safety Assessment 200-837-3

has been carried out for this

substance.

Major Accident Hazard

Legislation

: 96/82/EC Update: 2003

Highly flammable

7b

Quantity 1: 5.000 t Quantity 2: 50.000 t

: 96/82/EC Update: 2003 Dangerous for the environment

9a

Quantity 1: 100 t Quantity 2: 200 t

Notification status

Europe REACH : 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

Canada DSL

Substitute inventory of incompliance with the inventory of the the i

SECTION 16: Other information

NFPA Classification : Health Hazard: 2

Fire Hazard: 4 Reactivity Hazard: 0



Further information

Legacy SDS Number : 25580

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

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ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%		

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

H302 Harmful if swallowed. H317 May cause an allergic skin reaction. H332 Harmful if inhaled. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.	H224	Extremely flammable liquid and vapor.
H332 Harmful if inhaled. H400 Very toxic to aquatic life.	H302	Harmful if swallowed.
H400 Very toxic to aquatic life.	H317	May cause an allergic skin reaction.
·	H332	Harmful if inhaled.
H410 Very toxic to aquatic life with long lasting effects.	H400	Very toxic to aquatic life.
	H410	Very toxic to aquatic life with long lasting effects.

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