SAFETY DATA SHEET



Ethyl Mercaptan

Version 2.7

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	: Ethyl Mercaptan
Material	: 1118972, 1111485, 1024772, 1086422, 1086423, 1021429,
	1021431, 1021426, 1021430, 1021425, 1021424, 1024773,
	1024771, 1024770, 1021427, 1026776, 1021428, 1104918

EC-No.Registration number

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

1.2

Relevant identified uses of the substance or mixture and uses advised aga	ainst
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Use at Industrial Site - Inter Injection as odorant in Liqu Strictly Controlled Condition Injection as odorant in Liqu Strictly Controlled Condition	ified Petroleum Gas under ns – Industrial ified Petroleum Gas under
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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 Number:100000068740	1/18

SAFETY DATA SHEET Ethyl Mercaptan Version 2.7 Revision Date 2019-06-13 SDS Requests: (800) 852-5530 Technical Information: (832) 813-4862 Responsible Party: Product Safety Group Email:sds@cpchem.com 1.4 **Emergency telephone:** Health: 866.442.9628 (North America) 1.832.813.4984 (International) Transport: CHEMTREC 800.424.9300 or 703.527.3887(int'l) Asia: CHEMWATCH (+612 9186 1132) China: 0532 8388 9090 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 : SDS@CPChem.com E-mail address : Website www.CPChem.com • **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, 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 Extremely flammable liquid and vapor. Hazard Statements : H224 Harmful if swallowed. H302 May cause an allergic skin reaction. H317 H332 Harmful if inhaled. H410 Very toxic to aquatic life with long lasting effects. SDS Number:10000068740 2/18

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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:	
	P303 + P361	off immediately all contaminated clothing.
	P304 + P340	Rinse skin with water/ shower. 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:	armon.
	P403 + P235	Store in a well-ventilated place. Keep cool.
	Disposal:	
	P501	Dispose of contents/ container to an approved waste disposal plant.
aquatic environment: 1 % The following percentage of	of the mixture consis	
		ts of ingredient(s) with unknown acute toxicity: 1 %
CTION 3: Composition/info		
- 3.2	rmation on ingredie	
- 3.2 bstance or Mixture	rmation on ingredio	ents
- 3.2 bstance or Mixture	rmation on ingredie : ETSH Ethanethiol	ents
 - 3.2 bstance or Mixture Synonyms Molecular formula Hazardous ingredients 	rmation on ingredia : ETSH Ethanethiol Ethyl Mercapt	ents
- 3.2 Ibstance or Mixture Synonyms Molecular formula	rmation on ingredie : ETSH Ethanethiol Ethyl Mercapt : C2H6S CAS-No. EC-No.	an Classification (REGULATION (EC) No [wt%]
Molecular formula Hazardous ingredients Chemical name	rmation on ingredie : ETSH Ethanethiol Ethyl Mercapt : C2H6S CAS-No. EC-No. Index No.	an Classification (REGULATION (EC) No 1272/2008)
 - 3.2 bstance or Mixture Synonyms Molecular formula Hazardous ingredients 	rmation on ingredie : ETSH Ethanethiol Ethyl Mercapt : C2H6S CAS-No. EC-No. Index No. 75-08-1	an Classification (REGULATION (EC) No 1272/2008)
 A 3.2 A 3.2 A 3.2 A 3.2 A 4 4 A 4 5 A 5	rmation on ingredie : ETSH Ethanethiol Ethyl Mercapt : C2H6S CAS-No. EC-No. Index No. 75-08-1 200-837-3 016-022-00-9	an Classification (REGULATION (EC) No 1272/2008) Flam. Liq. 1; H224 Acute Tox. 4; H302 Acute Tox. 4; H332
- 3.2 bstance or Mixture Synonyms Molecular formula Hazardous ingredients Chemical name	rmation on ingredia : ETSH Ethanethiol Ethyl Mercapt : C2H6S CAS-No. EC-No. Index No. 75-08-1 200-837-3 016-022-00-9	an Classification (REGULATION (EC) No 1272/2008) Flam. Liq. 1; H224 Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Sens. 1B; H317
 A 3.2 A 3.2 A 3.2 A 3.2 A 4 4 A 4 5 A 5	rmation on ingredia : ETSH Ethanethiol Ethyl Mercapt : C2H6S CAS-No. EC-No. Index No. 75-08-1 200-837-3 016-022-00-9	an Classification (REGULATION (EC) No 1272/2008) Flam. Liq. 1; H224 Acute Tox. 4; H302 Acute Tox. 4; H332

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	For the full text of the H-State	me	nts mentioned in this Section, see Section 16.
SEC	TION 4: First aid measures		
4.1	Description of first-aid meas	sur	res
	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.
	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.
SEC	TION 5: Firefighting measur	es	
	Flash point	:	-48 °C (-54 °F)
	Autoignition temperature	:	295 °C (563 °F)
5.1	Extinguishing modio		
	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 Specific hazards during fire fighting	n tl :	
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
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			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.
SEC	CTION 6: Accidental release	me	asures
6.1	Personal precautions, prote	ecti	ve equipment and emergency procedures
	Personal precautions	:	Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
6.2	Environmental precautions	5	
	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 Methods for cleaning up	con :	tainment and 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	S	
	Reference to other sections	:	For personal protection see section 8. For disposal considerations see section 13.
SEC	CTION 7: Handling and stora	ge	
7.1	Precautions for safe handli Handling	ng	
	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.

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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
		technological safety standards.

SECTION 8: Exposure controls/personal protection

8.1

Control parameters Ingredients with workplace control parameters

SDS Number:100000068740			'18	
Komponensek	Bázis	Érték	Ellenőrzési paraméterek	Megjegyzés
HU		Éatth		
	IE OEL	OELV - 15 min (STEL)	2 ppm, 3 mg/m3	
Ethyl Mercaptan	IE OEL	OELV - 8 hrs (TWA)	0,5 ppm, 1 mg/m3	
Components	Basis	Value	Control parameters	Note
E				
Ethyl Mercaptan O Oksiduojanti	LIVEL		1 mg/m3	Ο,
	LT OEL	IPRD		Pastaba
L T Komponentai	Šaltinis	Vertė	Kontrolės parametrai	Dootobo
Ethyl Mercaptan	LV OEL	AER 8 st	1 mg/m3	
Sastāvdaļas	Bāze	Vērtība	Pārvaldības parametri	Piezīme
Ethyl Mercaptan	FOR-2011-12-06- 1358	GV	0,5 ppm, 1 mg/m3	
Komponenter	Grunnlag	Verdi	Kontrollparametrer	Nota
NO				-
	FLINDO		2 mg/m3	1
Ethyl Mercaptan	PL NDS PL NDS	NDS	1 mg/m3 2 mg/m3	
	PLNDS	NDS	kontroli	Uwaya
Składniki	Podstawa	Wartość	Parametry dotyczące	Uwaga
irritação do irritação do trato respirató TRS				
afeção do SNC afeção do sistema nervos	-		0,5 ppm,	do SNC,
Ethyl Mercaptan	PT OEL	VLE-MP	0,5 ppm,	irritação do TRS, afeçã
Componentes	Bases	Valor	Parâmetros de	Nota
РТ				
Ethyl Mercaptan	SI OEL	MV	0,5 ppm, 1,3 mg/m3	
Sestavine	Osnova	Vrednost	Parametri nadzora	Pripomba
SI				
	SK OEL	NPEL krátkodobý	1 ppm, 2,6 mg/m3	
Ethyl Mercaptan	SK OEL	NPEL priemerný	0,5 ppm, 1,3 mg/m3	
	a a =:			

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Ethyl Mercaptan	HU OEL	AK-érték	1 mg/m3	i,
i i	HU OEL	CK-érték	1 mg/m3	i,
i Ingerlő anyag (izgatja	a bőrt, nyálkahártyát, sze	met vagy mindhármat)		
GR				
Συστατικά	Βάση	Τιμή	Παράμετροι ελέγχου	Σημείωση
Ethyl Mercaptan	GR OEL	TWA	10 ppm, 25 mg/m3	
	GR OEL	STEL	10 ppm, 25 mg/m3	
GB				
Components	Basis	Value	Control parameters	Note
Ethyl Mercaptan	GB EH40	TWA	0,5 ppm, 1,3 mg/m3	
÷ ·	GB EH40	STEL	2 ppm, 5,2 mg/m3	
R				
Composants	Base	Valeur	Paramètres de contrôle	Note
Ethyl Mercaptan	FR VLE	VME	0,5 ppm, 1 mg/m3	normal,
normal Valeurs limites indicati		VIVIL	0,5 ppm, 1 mg/m5	normai,
1				1
Aineosat	Peruste	Arvo	Valvontaa koskevat	Huomautus
Ethyl Mercanton	FIOEL	HTP on of 15 min	muuttujat	
Ethyl Mercaptan	FIVEL	HTP-arvot 15 min	0,5 ppm, 1,3 mg/m3	1
S				
Componentes	Base	Valor	Parámetros de control	Nota
Ethyl Mercaptan	ES VLA	VLA-ED	0,5 ppm, 1,3 mg/m3	
E				
E Komponendid, osad	Alused	Väärtus	Kontrolliparameetrid	Märkused
Ethyl Mercaptan	EE OEL	Piirnorm	0,5 ppm, 1 mg/m3	C,
C Kantserogeensed aine		FIIIIUIII	0,5 ppm, 1 mg/m5	0,
Ũ				
DK				
Komponenter	Basis	Værdi	Kontrolparametre	Note
Ethyl Moreonton				
Ethyl Mercaptan	DK OEL	GV	0,5 ppm, 1 mg/m3	
· · ·	DK OEL	GV	0,5 ppm, 1 mg/m3	
DE				Bemerkung
· · ·	Grundlage	Wert	Zu überwachende	Bemerkung
DE Inhaltsstoffe			Zu überwachende Parameter	
DE	Grundlage DE TRGS 900	Wert AGW	Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3	Bemerkung DFG,
DE Inhaltsstoffe Ethyl Mercaptan DFG Senatskommission zu	Grundlage DE TRGS 900	Wert AGW	Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3	
DE Inhaltsstoffe Ethyl Mercaptan DFG Senatskommission zu CH	Grundlage DE TRGS 900 r Prüfung gesundheitssch	AGW ädlicher Arbeitsstoffe de	Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 er DFG (MAK-Kommission)	DFG,
DE Inhaltsstoffe Ethyl Mercaptan DFG Senatskommission zu	Grundlage DE TRGS 900	Wert AGW	Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 er DFG (MAK-Kommission) Zu überwachende	
DE Inhaltsstoffe Ethyl Mercaptan DFG Senatskommission zu CH Inhaltsstoffe	Grundlage DE TRGS 900 r Prüfung gesundheitssch Grundlage	AGW ädlicher Arbeitsstoffe de	Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 or DFG (MAK-Kommission) Zu überwachende Parameter	DFG,
DE Inhaltsstoffe Ethyl Mercaptan DFG Senatskommission zu CH	Grundlage DE TRGS 900 r Prüfung gesundheitssch Grundlage CH SUVA	AGW ädlicher Arbeitsstoffe de	Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 er DFG (MAK-Kommission) Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3	DFG,
DE Inhaltsstoffe Ethyl Mercaptan DFG Senatskommission zu CH Inhaltsstoffe Ethyl Mercaptan	Grundlage DE TRGS 900 r Prüfung gesundheitssch Grundlage	Wert AGW ädlicher Arbeitsstoffe de Wert MAK-Wert	Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 or DFG (MAK-Kommission) Zu überwachende Parameter	DFG,
DE Inhaltsstoffe Ethyl Mercaptan DFG Senatskommission zu CH Inhaltsstoffe Ethyl Mercaptan	Grundlage DE TRGS 900 r Prüfung gesundheitssch Grundlage CH SUVA CH SUVA	Wert AGW ädlicher Arbeitsstoffe de Wert MAK-Wert KZGW	Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 er DFG (MAK-Kommission) Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 1 ppm, 2,6 mg/m3	DFG, Bemerkung
DE Inhaltsstoffe Ethyl Mercaptan DFG Senatskommission zu CH Inhaltsstoffe Ethyl Mercaptan BE Bestanddelen	Grundlage DE TRGS 900 r Prüfung gesundheitssch Grundlage CH SUVA CH SUVA Basis	Wert AGW ädlicher Arbeitsstoffe de Wert MAK-Wert KZGW Waarde	Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 er DFG (MAK-Kommission) Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 1 ppm, 2,6 mg/m3 Controleparameters	DFG,
DE Inhaltsstoffe Ethyl Mercaptan DFG Senatskommission zu CH Inhaltsstoffe Ethyl Mercaptan	Grundlage DE TRGS 900 r Prüfung gesundheitssch Grundlage CH SUVA CH SUVA	Wert AGW ädlicher Arbeitsstoffe de Wert MAK-Wert KZGW	Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 er DFG (MAK-Kommission) Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 1 ppm, 2,6 mg/m3	DFG, Bemerkung
DE Inhaltsstoffe Ethyl Mercaptan DFG Senatskommission zu CH Inhaltsstoffe Ethyl Mercaptan Bestanddelen Ethyl Mercaptan	Grundlage DE TRGS 900 r Prüfung gesundheitssch Grundlage CH SUVA CH SUVA Basis	Wert AGW ädlicher Arbeitsstoffe de Wert MAK-Wert KZGW Waarde	Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 er DFG (MAK-Kommission) Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 1 ppm, 2,6 mg/m3 Controleparameters	DFG, Bemerkung
DE Inhaltsstoffe Ethyl Mercaptan DFG Senatskommission zu CH Inhaltsstoffe Ethyl Mercaptan Bestanddelen Ethyl Mercaptan	Grundlage DE TRGS 900 r Prüfung gesundheitssch Grundlage CH SUVA CH SUVA Basis BE OEL	Wert AGW ädlicher Arbeitsstoffe de Wert MAK-Wert KZGW Waarde TGG 8 hr	Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 er DFG (MAK-Kommission) Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 1 ppm, 2,6 mg/m3 Controleparameters	DFG, Bemerkung Opmerking
DE Inhaltsstoffe Ethyl Mercaptan DFG Senatskommission zu CH Inhaltsstoffe Ethyl Mercaptan Bestanddelen Ethyl Mercaptan NT Inhaltsstoffe	Grundlage DE TRGS 900 r Prüfung gesundheitssch Grundlage CH SUVA CH SUVA Basis	Wert AGW ädlicher Arbeitsstoffe de Wert MAK-Wert KZGW Waarde	Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 ar DFG (MAK-Kommission) Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 1 ppm, 2,6 mg/m3 Controleparameters 0,5 ppm, 1,3 mg/m3	DFG, Bemerkung
DE Inhaltsstoffe Ethyl Mercaptan DFG Senatskommission zu CH Inhaltsstoffe Ethyl Mercaptan Bestanddelen Ethyl Mercaptan NT Inhaltsstoffe	Grundlage DE TRGS 900 r Prüfung gesundheitssch Grundlage CH SUVA CH SUVA Basis BE OEL	Wert AGW ädlicher Arbeitsstoffe de Wert MAK-Wert KZGW Waarde TGG 8 hr Wert Wert	Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 or DFG (MAK-Kommission) Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 1 ppm, 2,6 mg/m3 Controleparameters 0,5 ppm, 1,3 mg/m3 Zu überwachende Parameter	DFG, Bemerkung Opmerking
DE Inhaltsstoffe Ethyl Mercaptan DFG Senatskommission zu CH Inhaltsstoffe Ethyl Mercaptan BE Bestanddelen Ethyl Mercaptan AT	Grundlage DE TRGS 900 r Prüfung gesundheitssch Grundlage CH SUVA CH SUVA Basis BE OEL Grundlage AT OEL	Wert AGW ädlicher Arbeitsstoffe de Wert MAK-Wert KZGW Waarde TGG 8 hr Wert MAK-KZW	Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 ar DFG (MAK-Kommission) Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 1 ppm, 2,6 mg/m3 Controleparameters 0,5 ppm, 1,3 mg/m3 Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 Zu überwachende 0,5 ppm, 1,3 mg/m3	DFG, Bemerkung Opmerking
DE Inhaltsstoffe Ethyl Mercaptan DFG Senatskommission zu CH Inhaltsstoffe Ethyl Mercaptan Bestanddelen Ethyl Mercaptan AT Inhaltsstoffe	Grundlage DE TRGS 900 r Prüfung gesundheitssch Grundlage CH SUVA CH SUVA Basis BE OEL Grundlage	Wert AGW ädlicher Arbeitsstoffe de Wert MAK-Wert KZGW Waarde TGG 8 hr Wert Wert	Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 or DFG (MAK-Kommission) Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 1 ppm, 2,6 mg/m3 Controleparameters 0,5 ppm, 1,3 mg/m3 Zu überwachende Parameter	DFG, Bemerkung Opmerking
DE Inhaltsstoffe Ethyl Mercaptan DFG Senatskommission zu CH Inhaltsstoffe Ethyl Mercaptan Bestanddelen Ethyl Mercaptan AT Inhaltsstoffe Ethyl Mercaptan	Grundlage DE TRGS 900 r Prüfung gesundheitssch Grundlage CH SUVA CH SUVA Basis BE OEL Grundlage AT OEL AT OEL AT OEL	Wert AGW ädlicher Arbeitsstoffe de Wert MAK-Wert KZGW Waarde TGG 8 hr Wert Wert MAK-KZW MAK-TMW	Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 ar DFG (MAK-Kommission) Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 1 ppm, 2,6 mg/m3 Controleparameters 0,5 ppm, 1,3 mg/m3 Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 Zu überwachende 0,5 ppm, 1,3 mg/m3	DFG, Bemerkung Opmerking
DE Inhaltsstoffe Ethyl Mercaptan DFG Senatskommission zu CH Inhaltsstoffe Ethyl Mercaptan Bestanddelen Ethyl Mercaptan NT Inhaltsstoffe	Grundlage DE TRGS 900 r Prüfung gesundheitssch Grundlage CH SUVA CH SUVA Basis BE OEL Grundlage AT OEL AT OEL : End Us	Wert AGW ädlicher Arbeitsstoffe de Wert MAK-Wert KZGW Waarde TGG 8 hr Wert MAK-KZW MAK-TMW Se: Workers	Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 ar DFG (MAK-Kommission) Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 1 ppm, 2,6 mg/m3 Controleparameters 0,5 ppm, 1,3 mg/m3 Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 0,5 ppm, 1,3 mg/m3 0,5 ppm, 1,3 mg/m3	DFG, Bemerkung Opmerking
PE Inhaltsstoffe Ethyl Mercaptan DFG Senatskommission zu CH Inhaltsstoffe Ethyl Mercaptan Ethyl Mercaptan CT Inhaltsstoffe Ethyl Mercaptan	Grundlage DE TRGS 900 r Prüfung gesundheitssch Grundlage CH SUVA CH SUVA Basis BE OEL Grundlage AT OEL AT OEL : End Us Routes	Wert AGW ädlicher Arbeitsstoffe de Wert MAK-Wert KZGW Waarde TGG 8 hr Wert MAK-KZW MAK-TMW Se: Workers of exposure: Inf	Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 or DFG (MAK-Kommission) Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 1 ppm, 2,6 mg/m3 Controleparameters 0,5 ppm, 1,3 mg/m3 Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 0,5 ppm, 1,3 mg/m3	DFG, Bemerkung Opmerking Bemerkung
DE Inhaltsstoffe Ethyl Mercaptan DFG Senatskommission zu CH Inhaltsstoffe Ethyl Mercaptan Ethyl Mercaptan CT Inhaltsstoffe Ethyl Mercaptan	Grundlage DE TRGS 900 r Prüfung gesundheitssch Grundlage CH SUVA CH SUVA Basis BE OEL Grundlage AT OEL AT OEL : End Us Routes Potent	Wert AGW	Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 ar DFG (MAK-Kommission) Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 1 ppm, 2,6 mg/m3 Controleparameters 0,5 ppm, 1,3 mg/m3 Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 0,5 ppm, 1,3 mg/m3 0,5 ppm, 1,3 mg/m3	DFG, Bemerkung Opmerking Bemerkung
PE Inhaltsstoffe Ethyl Mercaptan DFG Senatskommission zu CH Inhaltsstoffe Ethyl Mercaptan Ethyl Mercaptan CT Inhaltsstoffe Ethyl Mercaptan	Grundlage DE TRGS 900 r Prüfung gesundheitssch Grundlage CH SUVA CH SUVA Basis BE OEL Grundlage AT OEL AT OEL : End Us Routes Potent	Wert AGW	Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 or DFG (MAK-Kommission) Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 1 ppm, 2,6 mg/m3 Controleparameters 0,5 ppm, 1,3 mg/m3 Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 0,5 ppm, 1,3 mg/m3	DFG, Bemerkung Opmerking Bemerkung
DE Inhaltsstoffe Ethyl Mercaptan DFG Senatskommission zu CH Inhaltsstoffe Ethyl Mercaptan Ethyl Mercaptan CT Inhaltsstoffe Ethyl Mercaptan	Grundlage DE TRGS 900 r Prüfung gesundheitssch Grundlage CH SUVA CH SUVA Basis BE OEL Grundlage AT OEL AT OEL : End Us Routes Potent	Wert AGW	Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 or DFG (MAK-Kommission) Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 1 ppm, 2,6 mg/m3 Controleparameters 0,5 ppm, 1,3 mg/m3 Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 0,5 ppm, 1,3 mg/m3	DFG, Bemerkung Opmerking Bemerkung
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DE Inhaltsstoffe Ethyl Mercaptan DFG Senatskommission zu CH Inhaltsstoffe Ethyl Mercaptan Bestanddelen Ethyl Mercaptan AT Inhaltsstoffe Ethyl Mercaptan	Grundlage DE TRGS 900 r Prüfung gesundheitssch Grundlage CH SUVA CH SUVA Basis BE OEL Grundlage AT OEL AT OEL : End Us Potent Value: : End Us	Wert AGW	Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 er DFG (MAK-Kommission) Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 1 ppm, 2,6 mg/m3 Controleparameters 0,5 ppm, 1,3 mg/m3 Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 0,5 ppm, 1,3 mg/m3	DFG, Bemerkung Opmerking Bemerkung
DE Inhaltsstoffe Ethyl Mercaptan DFG Senatskommission zu CH Inhaltsstoffe Ethyl Mercaptan SE Bestanddelen Ethyl Mercaptan AT Inhaltsstoffe Ethyl Mercaptan DNEL	Grundlage DE TRGS 900 r Prüfung gesundheitssch Grundlage CH SUVA CH SUVA Basis BE OEL Grundlage AT OEL AT OEL : End Us Routes Potent Value: : End Us	Wert AGW	Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 er DFG (MAK-Kommission) Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 1 ppm, 2,6 mg/m3 Controleparameters 0,5 ppm, 1,3 mg/m3 Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 0,5 ppm, 1,3 mg/m3 nalation Chronic effects, System	DFG, Bemerkung Opmerking Bemerkung
DE Inhaltsstoffe Ethyl Mercaptan DFG Senatskommission zu CH Inhaltsstoffe Ethyl Mercaptan SE Bestanddelen Ethyl Mercaptan NT Inhaltsstoffe Ethyl Mercaptan DNEL	Grundlage DE TRGS 900 r Prüfung gesundheitssch Grundlage CH SUVA CH SUVA Basis BE OEL Grundlage AT OEL AT OEL AT OEL .: End Us Routes Potent Value: .: End Us Routes Potent	Wert AGW	Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 er DFG (MAK-Kommission) Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 1 ppm, 2,6 mg/m3 Controleparameters 0,5 ppm, 1,3 mg/m3 Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 0,5 ppm, 1,3 mg/m3	DFG, Bemerkung Opmerking Bemerkung
DE Inhaltsstoffe Ethyl Mercaptan DFG Senatskommission zu CH Inhaltsstoffe Ethyl Mercaptan SE Bestanddelen Ethyl Mercaptan NT Inhaltsstoffe Ethyl Mercaptan DNEL	Grundlage DE TRGS 900 r Prüfung gesundheitssch Grundlage CH SUVA CH SUVA Basis BE OEL Grundlage AT OEL AT OEL AT OEL .: End Us Routes Potent Value: .: End Us Routes Potent	Wert AGW	Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 er DFG (MAK-Kommission) Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 1 ppm, 2,6 mg/m3 Controleparameters 0,5 ppm, 1,3 mg/m3 Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 0,5 ppm, 1,3 mg/m3 nalation Chronic effects, System	DFG, Bemerkung Opmerking Bemerkung
DE Inhaltsstoffe Ethyl Mercaptan DFG Senatskommission zu CH Inhaltsstoffe Ethyl Mercaptan Bestanddelen Ethyl Mercaptan AT Inhaltsstoffe Ethyl Mercaptan DNEL	Grundlage DE TRGS 900 r Prüfung gesundheitssch Grundlage CH SUVA CH SUVA Basis BE OEL Grundlage AT OEL AT OEL AT OEL .: End Us Routes Potent Value: .: End Us Routes Potent	Wert AGW	Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 er DFG (MAK-Kommission) Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 1 ppm, 2,6 mg/m3 Controleparameters 0,5 ppm, 1,3 mg/m3 Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 0,5 ppm, 1,3 mg/m3 nalation Chronic effects, System	DFG, DFG, DFG, Opmerkung Bemerkung hic effects
DE Inhaltsstoffe Ethyl Mercaptan DFG Senatskommission zu CH Inhaltsstoffe Ethyl Mercaptan SE Bestanddelen Ethyl Mercaptan NT Inhaltsstoffe Ethyl Mercaptan DNEL	Grundlage DE TRGS 900 r Prüfung gesundheitssch Grundlage CH SUVA CH SUVA CH SUVA Basis BE OEL Grundlage AT OEL AT OEL .: End Us Routes Potent Value: .: End Us Routes Potent Value:	Wert AGW	Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 er DFG (MAK-Kommission) Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 1 ppm, 2,6 mg/m3 Controleparameters 0,5 ppm, 1,3 mg/m3 Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 0,5 ppm, 1,3 mg/m3 nalation Chronic effects, System	DFG, DFG, Opmerking Bemerkung
DE Inhaltsstoffe Ethyl Mercaptan DFG Senatskommission zu CH Inhaltsstoffe Ethyl Mercaptan SE Bestanddelen Ethyl Mercaptan AT Inhaltsstoffe Ethyl Mercaptan DNEL DNEL	Grundlage DE TRGS 900 r Prüfung gesundheitssch Grundlage CH SUVA CH SUVA Basis BE OEL Grundlage AT OEL AT OEL : End Us Routes Potent Value: : End Us	Wert AGW	Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 ar DFG (MAK-Kommission) Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 1 ppm, 2,6 mg/m3 Controleparameters 0,5 ppm, 1,3 mg/m3 Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 chronic effects, System in contact Chronic effects, System	DFG, DFG, DFG, Opmerkung Bemerkung hic effects
DE Inhaltsstoffe Ethyl Mercaptan DFG Senatskommission zu CH Inhaltsstoffe Ethyl Mercaptan Bestanddelen Ethyl Mercaptan AT Inhaltsstoffe Ethyl Mercaptan DNEL DNEL	Grundlage DE TRGS 900 r Prüfung gesundheitssch Grundlage CH SUVA CH SUVA Basis BE OEL Grundlage AT OEL AT OEL : End Us Routes Potent Value: : End Us Routes Potent Value: : End Us	Wert AGW	Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 ar DFG (MAK-Kommission) Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 1 ppm, 2,6 mg/m3 Controleparameters 0,5 ppm, 1,3 mg/m3 Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 Zu überwachende Parameter 0,5 ppm, 1,3 mg/m3 chronic effects, System in contact Chronic effects, System	DFG, DFG, DFG, Opmerkung Bemerkung hic effects

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	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 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.
Eye protection	: Eye wash bottle with pure water. Tightly fitting safety goggles. Wear face-shield and protective suit for abnormal processing problems.
Skin and body protection	: Choose body protection in relation to its type, to the
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	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 th	e Exposure Scenario in the Annex portion
ECTION 9: Physical and chen	nical properties
.1	
Information on basic phys	sical and chemical properties
Appearance	
Form Physical state	: Liquid : Liquid
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
рН	: 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

: No data available

: No data available

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: 2,1

Partition coefficient: n-

Relative vapor density SDS Number:100000068740

octanol/water Viscosity, kinematic

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	(Air = 1.0)
Evaporation rate	: 1
Percent volatile	: > 99 %
SECTION 10: Stability and reacti	vity
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 rea	ctions
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 infor	mation
11.1 Information on toxicologica	
Acute oral toxicity	
Ethyl Mercaptan	: LD50: 682 mg/kg Species: Rat Sex: male Method: Fixed Dose Method

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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.
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.

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	 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 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 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 Sex: 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	
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
-	Metabolic activation: with and without metabolic activation Method: Mutagenicity (Escherichia coli - reverse mutation assay)
-	Metabolic activation: with and without metabolic activation Method: Mutagenicity (Escherichia coli - reverse mutation assay) Result: negative Test Type: Mouse lymphoma assay Method: OECD Guideline 476
-	Metabolic activation: with and without metabolic activation Method: Mutagenicity (Escherichia coli - reverse mutation assay) Result: negative Test Type: Mouse lymphoma assay Method: OECD Guideline 476 Result: Ambiguous Test Type: Sister Chromatid Exchange Assay Metabolic activation: with and without metabolic activation
Ethyl Mercaptan	Metabolic activation: with and without metabolic activation Method: Mutagenicity (Escherichia coli - reverse mutation assay) Result: negative Test Type: Mouse lymphoma assay Method: OECD Guideline 476 Result: Ambiguous Test Type: Sister Chromatid Exchange Assay Metabolic activation: with and without metabolic activation
Ethyl Mercaptan	 Metabolic activation: with and without metabolic activation Method: Mutagenicity (Escherichia coli - reverse mutation assay) Result: negative 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 Test Type: Micronucleus test Species: Mouse Method: Mutagenicity (micronucleus test)

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rsion 2.7	Revision Date 2019-06
	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 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.
Ethyl Mercaptan Further information	: Solvents may degrease the skin.
CTION 12: Ecological info	rmation
1 Toxicity	
Toxicity to fish	
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Ethyl Mercaptan	: 2,4 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) Method: OECD Test Guideline 203
Toxicity to daphnia and of	her 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 degradat Biodegradability	ility : This material is not expected to be readily biodegradable.
12.3 Bioaccumulative potentia Elimination information (per	
Bioaccumulation	: This material is not expected to bioaccumulate.
12.4 Mobility in soil	
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 Assessme	nt
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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 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 cutti torch on, the empty drum.	ing

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).

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

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Ethyl Mercaptan Version 2.7 Revision Date 2019-06-13 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** Components : ethanethiol A Chemical Safety Assessment 200-837-3 has been carried out for this substance. **Major Accident Hazard** : 96/82/EC Update: 2003 Legislation 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 5 SDS Number:10000068740 16/18

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TSCA Canada DSL Australia AICS New Zealand N Japan ENCS Korea KECI Philippines PICC China IECSC	: On th ZIoC : On th : On th : On th : On th : On th : On th	e inventory, or in e inventory, or in e inventory, or in e inventory, or in e inventory, or in	n compliance with the inventory n compliance with the inventory
CTION 16: Other	information		
NFPA Classific	ation : Health Hazard Fire Hazard: 4 Reactivity Haz		2 0
Further information			
		ighlighted in the	e margin. This version replaces all
previous version	S.		-
The information	in this SDS pertains only to the	product as shir	pped
information and guidance for saf not to be conside specific material	e handling, use, processing, st ered a warranty or quality spec	ion. The informa orage, transport ification. The inf lid for such mate	ation given is designed only as a ation, disposal and release and is
	or legend to abbreviations and	acronyms used	
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
NDSI	Canada Non-Domestic	NIOSH	National Institute for Occupational

	202	List		Realistic Freedom, geney
	NDSLCanada, Non-Domestic Substances ListCNSCentral Nervous SystemCASChemical Abstract ServiceEC50Effective Concentration		NIOSH	National Institute for Occupational Safety & Health
			NTP	National Toxicology Program
			NZIoC	New Zealand Inventory of Chemicals
			NOAEL	No Observable Adverse Effect Level
	EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
	EGEST EOSCA Generic Exposure Scenario Tool EOSCA European Oilfield Specialty Chemicals Association EINECS European Inventory of Existing Chemical Substances MAK Germany Maximum Concentration Values		OSHA	Occupational Safety & Health Administration
			PEL	Permissible Exposure Limit
			PICCS	Philippines Inventory of Commercial Chemical Substances
			PRNT	Presumed Not Toxic
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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%		

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

H224	Extremely flammable liquid and vapor.
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.