SAFETY DATA SHEET



Ethylthioethanol

Version 1.6

Revision Date 2023-05-19

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

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

1.1 Product identifier

Product information

Product Name	:	Ethylthioethanol
Material	:	1024590, 1024803, 1024802, 1027450

EC-No.Registration number

Chemical name	CAS-No. EC-No. Index No.	Legal Entity Registration number
Ethyl Thioethanol	110-77-0 203-802-0	Chevron Phillips Chemicals International NV 01-2119491305-38-0000

1.2

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

Relevant Identified Uses Supported	: Use as an intermediate

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
1.4	
SDS Number:100000014120	1/18

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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 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 (Giftlinien): +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 Product Safety and Toxicology Group Responsible Department 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** Serious eye damage, Category 1 H318: Causes serious eye damage. Long-term (chronic) aquatic hazard, H412: SDS Number:100000014120 2/18

Ethylthioethanol		
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Category 3	Ha	armful to aquatic life with long lasting effects.
2.2		
Labeling (REGULATION	(EC) No 1272/2008)	
Hazard pictograms		
Signal Word	: Danger	
Hazard Statements	: H318 H412	Causes serious eye damage. Harmful to aquatic life with long lasting effects.
Precautionary Statements	: Prevention: P273 P280 Response: P305 + P351 - Disposal:	Avoid release to the environment. Wear eye protection/ face protection. + 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.
	P501	Dispose of contents/ container to an approved waste disposal plant.
Hazardous ingredients whi • 110-77-0 E	P501	approved waste disposal plant.
• 110-77-0 E	P501 ch must be listed on t thyl Thioethanol : This substanc be either pers	approved waste disposal plant.
 110-77-0 E 2.3 Other hazards Results of PBT and vPvB 	P501 ch must be listed on t thyl Thioethanol : This substanc be either pers persistent and or higher. : The substanc considered to to REACH Ar	approved waste disposal plant. the label: re/mixture contains no components considered to istent, bioaccumulative and toxic (PBT), or very a very bioaccumulative (vPvB) at levels of 0.1% re/mixture does not contain components o have endocrine disrupting properties according ticle 57(f) or Commission Delegated regulation 00 or Commission Regulation (EU) 2018/605 at
 110-77-0 E 2.3 Other hazards Results of PBT and vPvB assessment Endocrine disrupting properties 	 P501 ch must be listed on the substance be either personal persistent and or higher. The substance considered to to REACH Arr (EU) 2017/21 levels of 0.1% 	approved waste disposal plant. the label: re/mixture contains no components considered to istent, bioaccumulative and toxic (PBT), or very divery bioaccumulative (vPvB) at levels of 0.1% re/mixture does not contain components have endocrine disrupting properties according ticle 57(f) or Commission Delegated regulation 00 or Commission Regulation (EU) 2018/605 at 6 or higher.
110-77-0 E 2.3 Other hazards Results of PBT and vPvB assessment Endocrine disrupting properties SECTION 3: Composition/info 3.1 - 3.2	 P501 ch must be listed on the substance be either personal persistent and or higher. The substance considered to to REACH Arr (EU) 2017/21 levels of 0.1% 	approved waste disposal plant. the label: re/mixture contains no components considered to istent, bioaccumulative and toxic (PBT), or very a very bioaccumulative (vPvB) at levels of 0.1% re/mixture does not contain components have endocrine disrupting properties according ticle 57(f) or Commission Delegated regulation 00 or Commission Regulation (EU) 2018/605 at 6 or higher.
110-77-0 E 2.3 Other hazards Results of PBT and vPvB assessment Endocrine disrupting properties SECTION 3: Composition/info 3.1 - 3.2 Substance or Mixture	P501 ch must be listed on t thyl Thioethanol : This substanc be either pers persistent and or higher. : The substanc considered to to REACH Ar (EU) 2017/21 levels of 0.1%	approved waste disposal plant. the label: re/mixture contains no components considered to istent, bioaccumulative and toxic (PBT), or very a very bioaccumulative (vPvB) at levels of 0.1% re/mixture does not contain components have endocrine disrupting properties according ticle 57(f) or Commission Delegated regulation 00 or Commission Regulation (EU) 2018/605 at 6 or higher.

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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
Ethyl Thioethanol	110-77-0 203-802-0	Eye Dam. 1; H318 Aquatic Chronic 3; H412 Aquatic Chronic 3; H412	99,7	

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 meas	sur	es
	General advice	:	Move out of dangerous area. Consult a physician. Show this material safety data sheet to the doctor in attendance.
	If inhaled	:	If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
	In case of skin contact	:	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 a Notes to physician	nd	effects, both acute and delayed
	Symptoms	:	No data available.
4.3	Risks Indication of any immediate	: me	No data available. edical attention and special treatment needed
	Treatment	:	No data available.
SEC	TION 5: Firefighting measur	es	
	Flash point	:	78°C (172°F) Method: Tag closed cup
	Autoignition temperature	:	No data available
5.1	Extinguishing media		
SDS	Number:100000014120		4/18

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	Suitable extinguishing	:	Carbon dioxide (CO2).
	media		
	Unsuitable extinguishing media	:	High volume water jet.
5.2	Special hazards arising from Specific hazards during fire fighting	mt :	
5.3			
	Advice for firefighters Special protective equipment for fire-fighters	:	Wear self-contained breathing apparatus for firefighting if necessary.
	Further information	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.
	Fire and explosion protection	:	Do not spray on a naked flame or any incandescent material. 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.
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 o		tainment and cleaning up
	Methods for cleaning up	:	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.
6.4	Reference to other sections	5	
	Reference to other sections	:	For personal protection see section 8. For disposal considerations see section 13.

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SECTION 7: Handling and storage

020	Tion 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. Provide sufficient air exchange and/or exhaust in work rooms. 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	Do not spray on a naked flame or any incandescent material. Keep away from open flames, hot surfaces and sources of ignition.
7.2	Conditions for safe storage, in	cluding any incompatibilities
	Storage	
	Requirements for storage : areas and containers	No smoking. Keep in a well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.
7.3	Specific End Use Use :	For additional details, see the Exposure Scenario in the Annex portion
SEC	CTION 8: Exposure controls/per	sonal protection

8.1

Control parameters Ingredients with workplace control parameters

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Podstata	Hodnota	Kontrolné parametre	Poznámka
SK OEL	NPEL priemerný	0,5 ppm, 1,3 mg/m3	
SK OEL	NPEL krátkodobý	1 ppm, 2,6 mg/m3	
Osnova	Vrednost	Parametri nadzora	Pripomba
SI OEL	MV	0,5 ppm, 1,3 mg/m3	
SI OEL	KTV	1 ppm, 2,6 mg/m3	
Sursă	Valoare	Parametri de control	Notă
RO OEL	STEL	1 mg/m3	
Bases	Valor	Parâmetros de controlo	Nota
PT OEL	VLE-MP	0,5 ppm,	
Podstawa	Wartość	Parametry dotyczące kontroli	Uwaga
	(6/18	
	SK OEL Osnova SI OEL SI OEL Sursă RO OEL Bases PT OEL	SK OEL NPEL krátkodobý Osnova Vrednost SI OEL MV SI OEL KTV Sursă Valoare RO OEL STEL Bases Valor PT OEL VLE-MP Podstawa Wartość	SK OEL NPEL krátkodobý 1 ppm, 2,6 mg/m3 Osnova Vrednost Parametri nadzora SI OEL MV 0,5 ppm, 1,3 mg/m3 SI OEL KTV 1 ppm, 2,6 mg/m3 Sursă Valoare Parametri de control RO OEL STEL 1 mg/m3 Bases Valor Parâmetros de controlo PT OEL VLE-MP 0,5 ppm, Podstawa Wartość Parametry dotyczące

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	1	I		I
Ethyl Mercaptan	PL NDS	NDS	1 mg/m3	
	PL NDS	NDSch	2 mg/m3	
10				
Komponenter	Grunnlag	Verdi	Kontrollparametrer	Nota
Ethyl Mercaptan	FOR-2011-12-06- 1358	GV	0,5 ppm, 1 mg/m3	
	1330	1		1
/K	-			_
Съставки	Основа	Стойност	Параметри на	Бележка
Ethyl Mercaptan	MK OEL	MV	контрол 0,5 ppm, 1,3 mg/m3	
Ethyl Mercaptan	WIK OEL	IVI V	0,5 ppm, 1,5 mg/m5	
_V				
Sastāvdaļas	Bāze	Vērtība	Pārvaldības parametri	Piezīme
Ethyl Mercaptan	LV OEL	AER 8 st	1 mg/m3	
.T				
Komponentai	Šaltinis	Vertė	Kontrolės parametrai	Pastaba
Ethyl Mercaptan	LT OEL	IPRD	1 mg/m3	О,
O patekimas per nep	pažeistą odą			
S				
Komponenter	Grunnlag	Verdi	Kontrollparametrer	Nota
Ethyl Mercaptan	IS OEL	TWA	0,5 ppm, 1 mg/m3	
E Components	Basis	Value	Control parameters	Note
Ethyl Mercaptan	IE OEL	OELV - 8 hrs (TWA		Note
			y 0,0 ppm,	1
IU				
Komponensek	Bázis	Érték	Ellenőrzési	Megjegyzés
Ethyl Morecetan		مالا مسغاد	paraméterek	N i
Ethyl Mercaptan	HU OEL HU OEL	AK-érték CK-érték	1 mg/m3 2 mg/m3	N, i, N, i,
	gyszerű fojtógázok, csekély egé	eszsegkarosito natassa	ai biro anyagok. Korrekcio NEM si	zukseges.
N Irritáló anyagok, e IR Sastojci	Temelj	Vrijednost	Nadzorni parametri	Bilješka
N Irritáló anyagok, e			Nadzorni parametri 0,5 ppm, 1,3 mg/m3	-
N Irritáló anyagok, e IR Sastojci Ethyl Mercaptan	Temelj HR OEL	Vrijednost GVI	Nadzorni parametri	-
N Irritáló anyagok, e IR Sastojci Ethyl Mercaptan GR	Temelj HR OEL HR OEL	Vrijednost GVI KGVI	Nadzorni parametri 0,5 ppm, 1,3 mg/m3 2 ppm, 5,2 mg/m3	Bilješka
N Irritáló anyagok, e IR Sastojci Ethyl Mercaptan GR Συστατικά	Temelj HR OEL HR OEL Βάση	Vrijednost GVI KGVI	Nadzorni parametri 0,5 ppm, 1,3 mg/m3 2 ppm, 5,2 mg/m3 Παράμετροι ελέγχου	-
N Irritáló anyagok, e IR Sastojci Ethyl Mercaptan GR	Temelj HR OEL HR OEL	Vrijednost GVI KGVI	Nadzorni parametri 0,5 ppm, 1,3 mg/m3 2 ppm, 5,2 mg/m3	Bilješka
N Irritáló anyagok, e Sastojci Ethyl Mercaptan SR Συστατικά Ethyl Mercaptan	Temelj HR OEL HR OEL Βάση GR OEL	Vrijednost GVI KGVI Tıµń TWA	Nadzorni parametri 0,5 ppm, 1,3 mg/m3 2 ppm, 5,2 mg/m3 Παράμετροι ελέγχου 10 ppm, 25 mg/m3	Bilješka
N Irritáló anyagok, e Sastojci Ethyl Mercaptan GR Συστατικά Ethyl Mercaptan GB	Temelj HR OEL HR OEL Bάση GR OEL GR OEL	Vrijednost GVI KGVI Tiµń TWA STEL	Nadzorni parametri 0,5 ppm, 1,3 mg/m3 2 ppm, 5,2 mg/m3 Παράμετροι ελέγχου 10 ppm, 25 mg/m3 10 ppm, 25 mg/m3	Bilješka Σημείωση
N Irritáló anyagok, e HR Sastojci Ethyl Mercaptan GR Συστατικά Ethyl Mercaptan GB Components	Temelj HR OEL HR OEL GR OEL GR OEL Basis	Vrijednost GVI KGVI Tiµń TWA STEL Value	Nadzorni parametri 0,5 ppm, 1,3 mg/m3 2 ppm, 5,2 mg/m3 Παράμετροι ελέγχου 10 ppm, 25 mg/m3 10 ppm, 25 mg/m3 Control parameters	Bilješka
N Irritáló anyagok, e Sastojci Ethyl Mercaptan SR Συστατικά Ethyl Mercaptan SB	Temelj HR OEL HR OEL Bάση GR OEL GR OEL	Vrijednost GVI KGVI Tiµń TWA STEL	Nadzorni parametri 0,5 ppm, 1,3 mg/m3 2 ppm, 5,2 mg/m3 Παράμετροι ελέγχου 10 ppm, 25 mg/m3 10 ppm, 25 mg/m3	Bilješka Σημείωση
N Irritáló anyagok, e IR Sastojci Ethyl Mercaptan SR Συστατικά Ethyl Mercaptan SB Components Ethyl Mercaptan	Temelj HR OEL HR OEL GR OEL GR OEL Basis GB EH40	Vrijednost GVI KGVI TIµń TWA STEL Value TWA	Nadzorni parametri 0,5 ppm, 1,3 mg/m3 2 ppm, 5,2 mg/m3 Παράμετροι ελέγχου 10 ppm, 25 mg/m3 10 ppm, 25 mg/m3 Control parameters 0,5 ppm, 1,3 mg/m3	Bilješka Σημείωση
N Irritáló anyagok, e IR Sastojci Ethyl Mercaptan SR Συστατικά Ethyl Mercaptan SB Components Ethyl Mercaptan FR	Temelj HR OEL HR OEL GR OEL GR OEL GR OEL GB EH40 GB EH40	Vrijednost GVI KGVI Tıµń TWA STEL Value TWA STEL	Nadzorni parametri 0,5 ppm, 1,3 mg/m3 2 ppm, 5,2 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	Bilješka Σημείωση Note
N Irritáló anyagok, e IR Sastojci Ethyl Mercaptan SR Συστατικά Ethyl Mercaptan SB Components Ethyl Mercaptan	Temelj HR OEL HR OEL GR OEL GR OEL Basis GB EH40	Vrijednost GVI KGVI TIµń TWA STEL Value TWA	Nadzorni parametri 0,5 ppm, 1,3 mg/m3 2 ppm, 5,2 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	Bilješka Σημείωση
N Irritáló anyagok, e IR Sastojci Ethyl Mercaptan GR Συστατικά Ethyl Mercaptan GB Components Ethyl Mercaptan FR Composants	Temelj HR OEL HR OEL GR OEL GR OEL GR EH40 GB EH40 Base	Vrijednost GVI KGVI Tıµń TWA STEL Value TWA STEL Valeur	Nadzorni parametri 0,5 ppm, 1,3 mg/m3 2 ppm, 5,2 mg/m3 Παράμετροι ελέγχου 10 ppm, 25 mg/m3 10 ppm, 25 mg/m3 2 ppm, 1,3 mg/m3 2 ppm, 5,2 mg/m3 9 ppm, 25 mg/m3 10 ppm, 25 mg/m3 Paramètres de contrôle	Bilješka Σημείωση Νote Note Valeurs limites
N Irritáló anyagok, e Sastojci Ethyl Mercaptan SR Συστατικά Ethyl Mercaptan SB Components Ethyl Mercaptan FR Composants Ethyl Mercaptan	Temelj HR OEL HR OEL GR OEL GR OEL Basis GB EH40 GB EH40 Base FR VLE	Vrijednost GVI KGVI Tıµń TWA STEL Value TWA STEL	Nadzorni parametri 0,5 ppm, 1,3 mg/m3 2 ppm, 5,2 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	Bilješka Σημείωση Note
N Irritáló anyagok, e HR Sastojci Ethyl Mercaptan GR Συστατικά Ethyl Mercaptan GB Components Ethyl Mercaptan FR Composants	Temelj HR OEL HR OEL GR OEL GR OEL Basis GB EH40 GB EH40 Base FR VLE	Vrijednost GVI KGVI Tıµń TWA STEL Value TWA STEL Valeur	Nadzorni parametri 0,5 ppm, 1,3 mg/m3 2 ppm, 5,2 mg/m3 Παράμετροι ελέγχου 10 ppm, 25 mg/m3 10 ppm, 25 mg/m3 2 ppm, 1,3 mg/m3 2 ppm, 5,2 mg/m3 9 ppm, 25 mg/m3 10 ppm, 25 mg/m3 Paramètres de contrôle	Bilješka Σημείωση Νote Note Valeurs limites
N Irritáló anyagok, e HR Sastojci Ethyl Mercaptan GR Συστατικά Ethyl Mercaptan GB Components Ethyl Mercaptan FR Composants Ethyl Mercaptan Valeurs limites Valeurs limites inc	Temelj HR OEL HR OEL GR OEL GR OEL Basis GB EH40 GB EH40 Base FR VLE	Vrijednost GVI KGVI Tıµń TWA STEL Value TWA STEL Valeur	Nadzorni parametri 0,5 ppm, 1,3 mg/m3 2 ppm, 5,2 mg/m3 Παράμετροι ελέγχου 10 ppm, 25 mg/m3 10 ppm, 25 mg/m3 2 ppm, 1,3 mg/m3 2 ppm, 5,2 mg/m3 9 ppm, 25 mg/m3 10 ppm, 25 mg/m3 Paramètres de contrôle	Bilješka Σημείωση Νote Note Valeurs limites
N Irritáló anyagok, e IR Sastojci Ethyl Mercaptan GR Συστατικά Ethyl Mercaptan GB Components Ethyl Mercaptan FR Composants Ethyl Mercaptan Valeurs limites Valeurs limites inc indicatives	Temelj HR OEL HR OEL GR OEL GR OEL Basis GB EH40 GB EH40 Base FR VLE	Vrijednost GVI KGVI Tıµń TWA STEL Value TWA STEL Valeur	Nadzorni parametri 0,5 ppm, 1,3 mg/m3 2 ppm, 5,2 mg/m3 Παράμετροι ελέγχου 10 ppm, 25 mg/m3 10 ppm, 25 mg/m3 2 ppm, 1,3 mg/m3 2 ppm, 5,2 mg/m3 9 ppm, 25 mg/m3 10 ppm, 25 mg/m3 Paramètres de contrôle	Bilješka Σημείωση Νote Note Valeurs limites
N Irritáló anyagok, e IR Sastojci Ethyl Mercaptan SR Συστατικά Ethyl Mercaptan GB Components Ethyl Mercaptan FR Composants Ethyl Mercaptan Valeurs limites Valeurs limites ind indicatives	Temelj HR OEL HR OEL GR OEL GR OEL Basis GB EH40 GB EH40 FR VLE	Vrijednost GVI KGVI Tıµή TWA STEL Value TWA STEL Value TWA STEL	Nadzorni parametri 0,5 ppm, 1,3 mg/m3 2 ppm, 5,2 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	Bilješka Σημείωση Νote Note Valeurs limites indicatives,
N Irritáló anyagok, e IR Sastojci Ethyl Mercaptan SR Συστατικά Ethyl Mercaptan GB Components Ethyl Mercaptan FR Composants Ethyl Mercaptan Valeurs limites Valeurs limites ind indicatives	Temelj HR OEL HR OEL GR OEL GR OEL Basis GB EH40 GB EH40 FR VLE	Vrijednost GVI KGVI Tıµή TWA STEL Value TWA STEL Value TWA STEL	Nadzorni parametri 0,5 ppm, 1,3 mg/m3 2 ppm, 5,2 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	Bilješka Σημείωση Νote Note Valeurs limites indicatives,
N Irritáló anyagok, e IR Sastojci Ethyl Mercaptan GR Συστατικά Ethyl Mercaptan GB Components Ethyl Mercaptan FR Composants Ethyl Mercaptan Valeurs limites Valeurs limites inc indicatives FI Aineosat Ethyl Mercaptan	Temelj HR OEL HR OEL GR OEL GR OEL Basis GB EH40 GB EH40 Base FR VLE licatives Peruste	Vrijednost GVI KGVI Tıµń TWA STEL Value TWA STEL Valeur VAleur VME	Nadzorni parametri 0,5 ppm, 1,3 mg/m3 2 ppm, 5,2 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	Bilješka Σημείωση Νote Note Valeurs limites indicatives,
N Irritáló anyagok, e Sastojci Ethyl Mercaptan SR Συστατικά Ethyl Mercaptan SB Components Ethyl Mercaptan FR Composants Ethyl Mercaptan Valeurs limites Valeurs limites ind indicatives FI Aineosat Ethyl Mercaptan SS	Temelj HR OEL HR OEL GR OEL GR OEL GB EH40 GB EH40 Base FR VLE ficatives Peruste FI OEL	Vrijednost GVI KGVI Tıµń TWA STEL Value TWA STEL Value TWA STEL Valeur VME VME	Nadzorni parametri 0,5 ppm, 1,3 mg/m3 2 ppm, 5,2 mg/m3 Παράμετροι ελέγχου 10 ppm, 25 mg/m3 10 ppm, 25 mg/m3 2 ppm, 1,3 mg/m3 2 ppm, 5,2 mg/m3 0,5 ppm, 1,3 mg/m3 2 ppm, 5,2 mg/m3 Valvontaa koskevat muuttujat 0,5 ppm, 1,3 mg/m3	Bilješka Σημείωση Νote Note Valeurs limites indicatives, Huomautus
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N Irritáló anyagok, e IR Sastojci Ethyl Mercaptan 3R Συστατικά Ethyl Mercaptan 3B Components Ethyl Mercaptan FR Composants Ethyl Mercaptan Valeurs limites Valeurs limites inc indicatives FI Aineosat Ethyl Mercaptan Ethyl Mercaptan Componentes Ethyl Mercaptan Ethyl Mercaptan Ethyl Mercaptan Ethyl Mercaptan C Kantserogeensed	Temelj HR OEL HR OEL GR OEL GR OEL GR OEL Basis GB EH40 GB EH40 Base FR VLE licatives Peruste FI OEL Base ES VLA Alused EE OEL	Vrijednost GVI KGVI Tıµń TWA STEL Value TWA STEL Valeur VA Valeur VME Arvo HTP-arvot 15 min Valor VLA-ED	Nadzorni parametri 0,5 ppm, 1,3 mg/m3 2 ppm, 5,2 mg/m3 Παράμετροι ελέγχου 10 ppm, 25 mg/m3 10 ppm, 25 mg/m3 2 ppm, 5,2 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 Parámetros de control 0,5 ppm, 1,3 mg/m3	Bilješka Σημείωση Νote Note Valeurs limites indicatives, Huomautus Nota Nota
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			SAF	ETY DATA SHEE
Ethylthioethanol				
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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	H,
H Hautresorptiv				
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	
3G				
Съставки	Основа	Стойност	Параметри на контрол	Бележка
Ethyl Mercaptan	BG OEL	TWA	1 mg/m3	
BE				
Bestanddelen	Basis	Waarde	Controleparameters	Opmerking
Ethyl Mercaptan	BE OEL	TGG 8 hr	0,5 ppm, 1,3 mg/m3	
ΑΤ				
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	

PNEC

: No data available

8.2

Exposure controls Engineering measures

Adequate ventilation to control airborned concentrations below the exposure guidelines/limits. Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

Personal protective equipment

Respiratory protection	: If ventilation or other engineering controls are not adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure, a supplied-air NIOSH approved respirator may be appropriate. If exposure to harmful levels of airborne material may occur, a NIOSH approved respirator that provides protection may be appropriate, such as:. A positive pressure, air-supplying respirator may be appropriate if there is potential for uncontrolled release, aerosolization, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.
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
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hylthioethanol	SAFETY DATA SH	E
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	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:. Flame retardant protective clothing. Complete head face and neck protection. Rubber apron. Footwear protecting against chemicals.	Э
Hygiene measures	: When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.	
For additional details, see th	Exposure Scenario in the Annex portion	
CTION 9: Physical and chen	cal properties	
Information on basic phys	cal and chemical properties	
Appearance		
Physical state	: liquid	
Color Odor	: Colorless : Pungent	
Safety data		
Flash point	: 78°C (172°F) Method: Tag closed cup	
Lower explosion limit	: No data available	
Upper explosion limit	: No data available	
Oxidizing properties	: No	
Autoignition temperature	: No data available	
Thermal decomposition	: No data available	
Molecular formula	: C4H10OS	
Molecular weight	: 106,18 g/mol	
рН	: Not applicable	
Pour point	: No data available	
Boiling point/boiling range	: 183,5°C (362,3°F)	
Vapor pressure	: No data available	
Relative density	: 1,02 at 15,6 °C (60,1 °F)	
Density	: 1,018 g/cm3	
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Ethylthioethanol	SAFETY DATA SHEET		
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Water solubility	: partly soluble		
Partition coefficient: n-	: No data available		
octanol/water Viscosity, kinematic	: No data available		
Relative vapor density	: No data available		
Evaporation rate	: No data available		
Percent volatile	: > 99 %		
9.2 Other information Conductivity	: No data available		
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.		
	Hazardous reactions: Vapors may form explosive mixture with air.		
10.4 Conditions to avoid	: Heat, flames and sparks.		
10.5 Materials to avoid	: Oxidizing agents.		
Thermal decomposition	: No data available		
10.6			
Hazardous decomposition products	: Carbon oxides Sulfur oxides		
Other data	: No decomposition if stored and applied as directed.		
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ECTION 11: Toxicological information						
11.1						
Information on toxicological effects						
Acute oral toxicity						
Ethyl Thioethanol	: LD50: > 2.000 mg/kg Species: Rat Sex: female Method: OECD Test Guideline 423					
Skin irritation						
Ethyl Thioethanol	: No skin irritation					
Eye irritation Ethyl Thioethanol	: Risk of serious damage to eyes.					
Sensitization						
Ethyl Thioethanol	: Did not cause sensitization on laboratory animals.					
CMR effects						
Ethyl Thioethanol	: Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.					
11.2 Information on other hazards						
Ethylthioethanol Further information Endocrine disrupting properties	 No data available. 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 informati	SECTION 12: Ecological information					
2.1 Toxicity						
Toxicity to daphnia and other	r aquatic invertebrates					
Ethyl Thioethanol	: EC50: 29,6 mg/l Exposure time: 24 h Species: Daphnia magna (Water flea) static test Method: OECD Test Guideline 202					
Toxicity to algae						
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Ethylthioethanol	SAFETY DATA SHEET
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Ethyl Thioethanol	 : > 100 mg/l Exposure time: 72 h Species: Desmodesmus subspicatus (green algae) Method: OECD Test Guideline 201
12.2 Persistence and degradal	bility
Biodegradability	
Ethyl Thioethanol	: aerobic
	Result: Not readily biodegradable. 8 % Testing period: 28 Days Method: OECD Test Guideline 301D
12.3 Bioaccumulative potentia	1
Bioaccumulation	• •
Ethyl Thioethanol	: This material is not expected to bioaccumulate.
12.4 Mobility in soil	
Mobility	
Ethyl Thioethanol	: No data available
12.5 Results of PBT and vPvB Results of PBT assessmen	assessment t : 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 pro	perties
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	: Harmful to aquatic life with long lasting effects.
12.8 Additional Information	
Ecotoxicology Assessme	nt
Short-term (acute) aquatic I	hazard
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Ethylthioethanol	SAFETY DATA SHEET						
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Ethyl Thioethanol	: Harmful to aquatic life.						
Long-term (chronic) aquat Ethyl Thioethanol	ic hazard : Harmful to aquatic life with long lasting effects.						
SECTION 13: Disposal consid	derations						
13.1							
Waste treatment method The information in this SD	ds IS pertains only to the product as shipped.						
may meet the criteria of a other State and local regu regulated components ma	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						
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 infor	mation						
14.1 - 14.7 Transport information							
The shipping description shipments in non-bulk p Consult the appropriate do Goods Regulations for add etc.) Therefore, the inform description for the materia	nation shown here, may not always agree with the bill of lading shipping						
The shipping description shipments in non-bulk p Consult the appropriate do Goods Regulations for add etc.) Therefore, the inform description for the materia bill of lading.	backages (see regulatory definition). Demostic or international mode-specific and quantity-specific Dangerous ditional shipping description requirements (e.g., technical name or names, nation shown here, may not always agree with the bill of lading shipping						
The shipping description shipments in non-bulk p Consult the appropriate do Goods Regulations for add etc.) Therefore, the inform description for the materia bill of lading. US DOT (UNITED STATE NA1993, COMBUSTIB	 Backages (see regulatory definition). Comestic or international mode-specific and quantity-specific Dangerous ditional shipping description requirements (e.g., technical name or names, nation shown here, may not always agree with the bill of lading shipping il. Flashpoints for the material may vary slightly between the SDS and the SDS and the SDS DEPARTMENT OF TRANSPORTATION) BLE LIQUID, N.O.S., (ETHYL THIOETHANOL), III CONAL MARITIME DANGEROUS GOODS) CA HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR 						
The shipping description shipments in non-bulk p Consult the appropriate do Goods Regulations for add etc.) Therefore, the inform description for the materia bill of lading. US DOT (UNITED STATE NA1993, COMBUSTIB IMO / IMDG (INTERNATION NOT REGULATED AS TRANSPORTATION B	 Backages (see regulatory definition). Demestic or international mode-specific and quantity-specific Dangerous ditional shipping description requirements (e.g., technical name or names, nation shown here, may not always agree with the bill of lading shipping il. Flashpoints for the material may vary slightly between the SDS and the SDS and the SDS DEPARTMENT OF TRANSPORTATION) BLE LIQUID, N.O.S., (ETHYL THIOETHANOL), III DONAL MARITIME DANGEROUS GOODS) A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR 						
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NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

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

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

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

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

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)

15.2

Major Accident Hazard	:	96/82/EC	Update: 2003
Legislation		Directive 96/82	/EC does not apply

Notification status

Notification status		On the inventory, or in compliance with the inventory
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) TSCA	:	On or in compliance with the active portion of the TSCA inventory
Canada NDSL	:	This product contains one or several components listed in the Canadian NDSL.
Other AICS	:	On the inventory, or in compliance with the inventory
New Zealand NZIoC	:	Not in compliance with the inventory
Japan ENCS	:	On the inventory, or in compliance with the inventory
Korea KECI	:	A substance(s) in this product was not registered, notified to be registered, or exempted from registration by CPChem according to K-REACH regulations. Importation or manufacture of this product is still permitted provided the Korean Importer of Record has themselves notified the substance or the exported amount does not exceed the minimum threshold quantity of the non-registered substance(s).
Philippines PICCS China IECSC	:	On the inventory, or in compliance with the inventory Not in compliance with the inventory
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Taiwan TCSI

On the inventory, or in compliance with the inventory

SECTION 16: Other information

NFPA Classification	: Health Hazard: 3 Fire Hazard: 2 Reactivity Hazard: 0
Further information	

:

Legacy SDS Number : 44020

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.

ACGIH	American Conference of	LD50	Lethal Dose 50%
	Government Industrial Hygienists		
AIIC	Australian Inventory of Industrial	LOAEL	Lowest Observed Adverse Effe
	Chemicals		Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupation 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 Concentra
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 Substan
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovered
>=	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.

H318	Causes serious eye damage.
H412	Harmful to aquatic life with long lasting effects.

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Annex

1. Short title of Exposure Scenario: U	se as an intermediate
Main User Groups	: SU 3: Industrial uses: Uses of substances as such or in
Sector of use	 preparations at industrial sites SU3, SU8, SU9: Industrial Manufacturing (all), Manufacture of bulk, large scale chemicals (including petroleum products),
Process category	 Manufacture of fine chemicals PROC1: Use in closed process, no likelihood of exposure PROC2: Use in closed, continuous process with occasional controlled exposure PROC3: Use in closed batch process (synthesis or formulation) PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
	PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities PROC15: Use as laboratory reagent
Environmental release category	: ERC6a: Industrial use resulting in manufacture of another substance (use of intermediates)
Further information	: Use as an isolated intermediate under strictly controlled conditions
	olling environmental exposure for:ERC6a: Industrial use ther substance (use of intermediates)
Technical conditions and measures Remarks	s / Organizational measures : Not applicable
PROC4, PROC8a, PROC8b, PRO Use in closed, continuous proce batch process (synthesis or for where opportunity for exposure (charging/discharging) from/to	olling worker exposure for: PROC1, PROC2, PROC3, OC15: Use in closed process, no likelihood of exposure, ess with occasional controlled exposure, Use in closed mulation), Use in batch and other process (synthesis) arises, Transfer of substance or preparation vessels/large containers at non-dedicated facilities, ration (charging/ discharging) from/ to vessels/ large s, Use as laboratory reagent
Amount used	
SDS Number:100000014120	17/18

SAFETY DATA SHEET

Version 1.6

: Not applicable

Revision Date 2023-05-19

Remarks

3. Exposure estimation and reference to its source

Remarks: Not applicable

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Not applicable