

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 04/04/2018 Revision date: :

Version: 1.0

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

1.1. Product identifier	
Product form	: Mixture
Product name	: 200 ppm Ethyl Mercaptan
Product code	: AL0-130278
Product group	: Trade product

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

1.2.1.	Relevant identified uses	
Main us	e category	: Labor

Industrial/Professional use spec

: Laboratory Use : Industrial

For professional use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Phenova 6390 Joyce Dr. Suite 100 80403 Golden, CO - United States T 1-866-942-2978 - F 1-866-283-0269 info@phenova.com - www.phenova.com

1.4. Emergency telephone number

Emergency number

: ChemTel Assistance (US/Canada) 1-800-255-3924 ChemTel Assistance (International) +1 813-248-0585

### SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

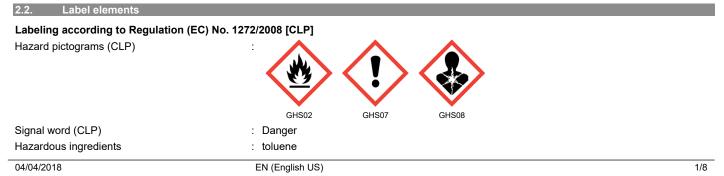
Flam. Liq. 2	H225
Skin Irrit. 2	H315
Repr. 2	H361
STOT SE 3	H336
STOT RE 2	H373

### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Repr.Cat.3; R63 F; R11 Xn; R48/20 Xi; R38 R67 Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available



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Hazard statements (CLP)	<ul> <li>H225 - Highly flammable liquid and vapor</li> <li>H315 - Causes skin irritation</li> <li>H336 - May cause drowsiness or dizziness</li> <li>H361 - Suspected of damaging fertility or the unborn child</li> <li>H373 - May cause damage to organs through prolonged or repeated exposure</li> </ul>
Precautionary statements (CLP)	<ul> <li>P233 - Keep container tightly closed</li> <li>P260 - Do not breathe dust/fume/gas/mist/vapors/spray</li> <li>P271 - Use only outdoors or in a well-ventilated area</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection</li> <li>P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.</li> <li>Rinse skin with water</li> <li>P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing</li> <li>P308+P313 - IF exposed or concerned: Get medical advice/attention</li> <li>P332+P313 - If skin irritation occurs: Get medical advice/attention</li> <li>P362+P364 - Take off contaminated clothing and wash it before reuse</li> <li>P370+P378 - In case of fire: Use media other than water to extinguish</li> <li>P403+P233 - Store in a well-ventilated place. Keep container tightly closed</li> <li>P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation</li> </ul>

No labeling applicable

### 2.3. Other hazards

No additional information available

### **SECTION 3: Composition/Information on ingredients**

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
toluene (Component)	(CAS No) 108-88-3 (EC-No.) 203-625-9 (EC index no) 601-021-00-3	99.98	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304

	ncerned: Get
· · ·	eathing. Call a
plenty of soap and water. Wash contaminated clothing before reuse. I	
	nking or redness
se mouth. Do NOT induce vomiting. Obtain emergency medical attention	n.
n acute and delayed	
/ cause drowsiness or dizziness.	
ises skin irritation.	
on and special treatment needed	
mec Rer POI Rins with occ Rins Rins cts, bottl May Cau	<ul> <li>Never give anything by mouth to an unconscious person. IF exposed or comedical advice/attention.</li> <li>Remove victim to fresh air and keep at rest in a position comfortable for bree POISON CENTER or doctor/physician if you feel unwell.</li> <li>Rinse skin with water/shower. Remove/Take off immediately all contaminate with plenty of soap and water. Wash contaminated clothing before reuse. If occurs: Get medical advice/attention. Get medical advice/attention.</li> <li>Rinse immediately with plenty of water. Obtain medical attention if pain, blippersists.</li> <li>Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention cts, both acute and delayed</li> <li>May cause drowsiness or dizziness.</li> <li>Causes skin irritation.</li> </ul>

SECTION 5: Firefighting measure	S	
5.1. Extinguishing media		
Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.	
Unsuitable extinguishing media	: Do not use a heavy water stream.	
5.2. Special hazards arising from the substance or mixture		
Fire hazard	: Highly flammable liquid and vapor.	
Explosion hazard	: May form flammable/explosive vapor-air mixture.	

5.3. Advice for firefighters	
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release n	neasures
6.1. Personal precautions, protectiv	e equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection. Avoid breathing dust/fume/gas/mist/vapors/spray.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
Prevent entry to sewers and public waters. I	Notify authorities if liquid enters sewers or public waters.
6.3. Methods and material for conta	inment and cleaning up
Methods for cleaning up	: Take up in absorbent material. Collect spillage.
6.4. Reference to other sections	
See Heading 8. Exposure controls and pers	onal protection.
<b>SECTION 7: Handling and storag</b>	ie.
7.1. Precautions for safe handling	
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7.1.       Precautions for safe handling         Additional hazards when processed         Precautions for safe handling         Hygiene measures	<ul> <li>Handle empty containers with care because residual vapors are flammable.</li> <li>Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No open flames. No smoking. Use only non-sparking tools. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area.</li> <li>Gently wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.</li> </ul>
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7.1.       Precautions for safe handling         Additional hazards when processed         Precautions for safe handling         Hygiene measures         7.2.       Conditions for safe storage, inclusion         Technical measures         Storage conditions	<ul> <li>Handle empty containers with care because residual vapors are flammable.</li> <li>Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No open flames. No smoking. Use only non-sparking tools. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area.</li> <li>Gently wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.</li> <li>Huding any incompatibilities</li> <li>Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment.</li> <li>Keep in fireproof place. Keep container tightly closed. Keep container tightly closed and in a well-ventilated place. Keep away from any flames or sparking source.</li> </ul>
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7.1.       Precautions for safe handling         Additional hazards when processed         Precautions for safe handling         Hygiene measures         7.2.       Conditions for safe storage, inclusion         Technical measures         Storage conditions         Incompatible materials         7.3.       Specific end use(s)	<ul> <li>Handle empty containers with care because residual vapors are flammable.</li> <li>Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No open flames. No smoking. Use only non-sparking tools. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area.</li> <li>Gently wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.</li> <li>Huding any incompatibilities</li> <li>Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment.</li> <li>Keep in fireproof place. Keep container tightly closed. Keep container tightly closed and in a well-ventilated place. Keep away from any flames or sparking source.</li> <li>Direct sunlight. Heat sources.</li> </ul>

toluene (108-88-3)		
EU	IOELV TWA (mg/m <sup>3</sup> )	192 mg/m <sup>3</sup> (Toluene; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV TWA (ppm)	50 ppm (Toluene; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV STEL (mg/m <sup>3</sup> )	384 mg/m <sup>3</sup> (Toluene; EU; Short time value; Indicative occupational exposure limit value)
EU	IOELV STEL (ppm)	100 ppm (Toluene; EU; Short time value; Indicative occupational exposure limit value)
Belgium	Limit value (mg/m <sup>3</sup> )	77 mg/m³ (Toluène; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	20 ppm (Toluène; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Short time value (mg/m³)	384 mg/m³ (Toluène; Belgium; Short time value)
Belgium	Short time value (ppm)	100 ppm (Toluène; Belgium; Short time value)
France	VLE (mg/m <sup>3</sup> )	384 mg/m³ (Toluène; France; Short time value; VRC: Valeur réglementaire contraignante)
France	VLE (ppm)	100 ppm (Toluène; France; Short time value; VRC: Valeur réglementaire contraignante)

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toluene (108-88-3)		
France	VME (mg/m³)	76.8 mg/m <sup>3</sup> (Toluène; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
France	VME (ppm)	20 ppm (Toluène; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	20 ppm (Toluene; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
Netherlands	Grenswaarde TGG 8H (mg/m³)	150 mg/m <sup>3</sup> (Tolueen; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 8H (ppm)	39 ppm (Tolueen; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	384 mg/m³ (Tolueen; Netherlands; Short time value; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 15MIN (ppm)	100 ppm (Tolueen; Netherlands; Short time value; Public occupational exposure limit value)
United Kingdom	WEL TWA (mg/m³)	191 mg/m <sup>3</sup> Toluene; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL TWA (ppm)	50 ppm Toluene; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	384 mg/m <sup>3</sup> Toluene; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (ppm)	100 ppm Toluene; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)

8.2. Exposure controls

Appropriate engineering controls

Personal protective equipment

- : Either local exhaust or general room ventilation is usually required.
- : Avoid all unnecessary exposure. Gloves. Protective clothing. Protective goggles. Safety glasses.



- : Wear chemically resistant protective gloves. Wear suitable gloves resistant to chemical penetration.
- : Chemical goggles or safety glasses. Safety glasses.
- : Wear suitable protective clothing. Wear chemically protective gloves, lab coat or apron to prevent prolonged or repeated skin contact.
- : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.

Other information

Skin and body protection

Respiratory protection

Hand protection

Eye protection

: Do not eat, drink or smoke during use.

### **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties	
Physical state	: Liquid
Color	: Colorless.
Odor	: characteristic.
рН	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Highly flammable liquid and vapor
Relative density	: No data available
Solubility	: No data available
Explosive properties	: No data available

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Oxidizing properties	: No data available			
Explosion limits	: No data available			
9.2. Other information	9.2. Other information			
No additional information available				
SECTION 10: Stability and reactivity				
10.1. Reactivity				
No additional information available				
10.2. Chemical stability				
Highly flammable liquid and vapor. May form flam	mable/explosive vapor-air mixture.			
10.3. Possibility of hazardous reactions				
Not established.				
10.4. Conditions to avoid				
Direct sunlight. Extremely high or low temperature	es. Open flame.			
10.5. Incompatible materials				
No additional information available				
10.6. Hazardous decomposition products				
May release flammable gases.				
SECTION 11: Toxicological information	on			
11.1. Information on toxicological effects				
Acute toxicity	: Not classified			
toluene (108-88-3)				
LD50 oral rat	> 2000 mg/kg (Rat; Equivalent or similar to OECD 401; Literature study; 5580 mg/kg bodyweight; Rat; Experimental value)			
LD50 dermal rabbit	12223 mg/kg (Rabbit; Literature study; Other; >5000 mg/kg bodyweight; Rabbit; Experimental value)			
LC50 inhalation rat (mg/l)	> 20 mg/l/4h (Rat; Literature study)			
ATE CLP (dermal)	12223 mg/kg body weight			
Skin corrosion/irritation	: Causes skin irritation.			
Serious eye damage/irritation	: Not classified			
Despiratory or alvin consitization	Based on available data, the classification criteria are not met : Not classified			
Respiratory or skin sensitization	Based on available data, the classification criteria are not met			
Germ cell mutagenicity	: Not classified			
jj	Based on available data, the classification criteria are not met			
Carcinogenicity	: Not classified			
	Based on available data, the classification criteria are not met May cause cancer			
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.			
Specific target organ toxicity – single exposure	: May cause drowsiness or dizziness.			
Specific target organ toxicity – repeated exposure	: May cause damage to organs through prolonged or repeated exposure.			
Aspiration hazard	: Not classified			
•	Based on available data, the classification criteria are not met			
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.			
SECTION 12: Ecological information				

12.1. Toxicity

No additional information available

12.2. Persistence and degradability		
200 ppm Ethyl Mercaptan		
Persistence and degradability	Not established.	
toluene (108-88-3)		
Persistence and degradability	Readily biodegradable in water. easily degradable in the soil.	

toluene (108-88-3)	
Biochemical oxygen demand (BOD)	2.15 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	2.52 g O <sub>2</sub> /g substance
ThOD	3.13 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.69
12.3. Bioaccumulative potential	
200 ppm Ethyl Mercaptan	
Bioaccumulative potential	Not established.
toluene (108-88-3)	
BCF fish 2	90 (BCF; 72 h; Leuciscus idus; Static system; Fresh water)
Log Pow	2.73 (Experimental value; Other; 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
12.4. Mobility in soil	
toluene (108-88-3)	
Surface tension	0.03 N/m (20 °C)
12.5. Results of PBT and vPvB assessme	
No additional information available	
12.6. Other adverse effects	
Additional information	: Avoid release to the environment
SECTION 13: Disposal consideration	15
13.1. Waste treatment methods	
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Additional information	: Handle empty containers with care because residual vapors are flammable.
Ecology - waste materials	: Avoid release to the environment.
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IATA / AI	DN
14.1. UN number	
UN-No. (ADR)	: 1993
UN-No. (IATA)	: 1993
UN-No. (IMDG)	: 1993
UN-No. (IMDG) UN-No. (ADN)	
	: 1993
UN-No. (ADN)	: 1993
UN-No. (ADN) 14.2. UN proper shipping name	: 1993 : 1993
UN-No. (ADN) 14.2. UN proper shipping name Proper Shipping Name (ADR)	: 1993 : 1993 : FLAMMABLE LIQUID, N.O.S.
UN-No. (ADN) 14.2. UN proper shipping name Proper Shipping Name (ADR) Proper Shipping Name (IATA)	<ul> <li>: 1993</li> <li>: 1993</li> <li>: FLAMMABLE LIQUID, N.O.S.</li> <li>: Flammable liquid, n.o.s.</li> </ul>
UN-No. (ADN) 14.2. UN proper shipping name Proper Shipping Name (ADR) Proper Shipping Name (IATA) Proper Shipping Name (IMDG)	<ul> <li>: 1993</li> <li>: 1993</li> <li>: FLAMMABLE LIQUID, N.O.S.</li> <li>: FLAMMABLE LIQUID, N.O.S.</li> <li>: FLAMMABLE LIQUID, N.O.S.</li> </ul>
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UN-No. (ADN) <b>14.2.</b> UN proper shipping name Proper Shipping Name (ADR) Proper Shipping Name (IATA) Proper Shipping Name (IMDG) Proper Shipping Name (ADN) Transport document description (ADR) <b>14.3.</b> Packing group	<ul> <li>1993</li> <li>1993</li> <li>FLAMMABLE LIQUID, N.O.S.</li> <li>Flammable liquid, n.o.s.</li> <li>FLAMMABLE LIQUID, N.O.S.</li> <li>FLAMMABLE LIQUID, N.O.S.</li> <li>UN 1993 FLAMMABLE LIQUID, N.O.S., 3, II, (D/E)</li> </ul>
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according to Regulation (EC) No. 1907/2006 (REACH) v	vitri its amendment Regulation (EU) 2015/830
Hazard labels (IATA)	: 3
	3
	V
Hazard labels (IMDG)	: 3
Hazard labels (ADN)	: 3
14.4. Packing group	
	· II
Packing group (ADR) Packing group (IATA)	: II : II
Packing group (IMDG)	· II : II
Packing group (ADN)	: " : II
14.5. Environmental hazards	
Other information	: No supplementary information available.
14.6. Special precautions for user	
14.6.1. Overland transport	
Hazard identification number (Kemler No.)	: 33
Classification code (ADR)	: F1
Orange plates	33
	55
	1993
	1375
Special provision (ADR)	: 274, 601, 640D
Transport category (ADR)	: 2
Tunnel restriction code (ADR)	: D/E
	: 11
Limited quantities (ADR)	
Excepted quantities (ADR)	: E2
14.6.2. Transport by sea	
Special provision (IMDG)	: 274
Limited quantities (IMDG)	: 1L
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T7
Tank special provisions (IMDG)	: TP1, TP8, TP28
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-E
Stowage category (IMDG)	: В
14.6.3. Air transport	
CAO packing instructions (IATA)	: 364
CAO max net quantity (IATA)	: 60L
PCA packing instructions (IATA)	: 353
PCA Limited quantities (IATA)	: Y341
PCA limited quantity max net quantity (IATA)	: 1L
PCA max net quantity (IATA)	: 5L
PCA Excepted quantities (IATA)	: E2
Special provision (IATA)	· A3
Special provision (IATA) ERG code (IATA)	: A3 : 3H

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14.6.4. Inland waterway transport	
Special provision (ADN)	: 274, 601, 640D
Limited quantities (ADN)	: 1L
Excepted quantities (ADN)	: E2
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01
Number of blue cones/lights (ADN)	: 1
Carriage prohibited (ADN)	: No

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

Not applicable

### SECTION 15: Regulatory information

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

### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions Contains no REACH candidate substance Contains no REACH Annex XIV substances.

#### 15.1.2. National regulations

#### Germany

Water hazard class (WGK)

: 2 - hazardous to water

15.2. Chemical safety assessment No chemical safety assessment has been carried out

SECTION 16: Other information	
Data sources	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
Other information	: None.

### PHV SDS EU

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