

Custom Glycols Mix Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 03/03/2018 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	: Custom Glycols Mix	
Product code	: AL0-130255	
Product group	: Trade product	
1.2. Relevant identified uses of the sub	stance or mixture and uses advised against	
1.2.1. Relevant identified uses		
Main use category	: Laboratory Use	
Industrial/Professional use spec	: Industrial For professional use only	
Use of the substance/mixture	: Certified reference material for laboratory 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 I	mixture	
Classification according to Regulation (EC) No. 1272/2008 [CLP]		
Acute Tox. 4 (Oral)	H302	
Acute Tox. 4 (Dermal)	H312	
Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD] T; R24/25		
Full text of R-phrases: see section 16		
Adverse physicochemical, human health and environmental effects No additional information available		
2.2. Label elements		

Labeling according to Regulation (EC) No. 1272/2008 [CLP]		
Hazard pictograms (CLP)	: GHS07	
Signal word (CLP)	: Warning	
Hazard statements (CLP)	: H302+H312 - Harmful if swallowed or in contact with skin	
Precautionary statements (CLP)	: P270 - Do not eat, drink or smoke when using this product P280 - Wear protective gloves/protective clothing/eye protection/face protection P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting P303+P361+P353+P310 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor	

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P308+P313 - IF exposed or concerned: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

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]
Diethylene glycol (Component)	(CAS No) 111-46-6 (EC-No.) 203-872-2 (EC index no) 603-140-00-6	1	Acute Tox. 4 (Oral), H302 Acute Tox. 1 (Dermal), H310
ethylene glycol (Component)	(CAS No) 107-21-1 (EC-No.) 203-473-3 (EC index no) 603-027-00-1	1	Acute Tox. 4 (Oral), H302

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	: Allow victim to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Immediately call a poison center or doctor/physician. Wash with plenty of soap and water. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a POISON CENTER or doctor/physician if you feel unwell.
4.2. Most important symptoms and e	ffects, both acute and delayed
Symptoms/effects after skin contact	 Repeated exposure to this material can result in absorption through skin causing significant health hazard. Harmful in contact with skin.
Symptoms/effects after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.
4.3. Indication of any immediate med	lical attention and special treatment needed
No additional information available	
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
No additional information available	
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 m	easures
	equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
6.1.2. For emergency responders Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.
	. vormate drou.

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6.2. Environmental precautions			
Prevent entry to sewers	and public waters. Notify authorit	ies if liquid enters sewers or public	waters.
6.3. Methods and material for containment and cleaning up			
Methods for cleaning up		up in absorbent material. Collect	spillage.
	other sections	n	
	e controls and personal protectio	11.	
SECTION 7: Hand	Ing and storage or safe handling		
7.1. Precautions for safe har	Ŭ	hands and other exposed areas	with mild soap and water before eating, drinking or
	0	ing and when leaving work. Provic	de good ventilation in process area to prevent formation
Hygiene measures : Do not eat, drink or smoke when using this product. Gently wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.			
	r safe storage, including any ir		
Storage conditions		o container closed when not in use. A Keep away from any flames or s	. Keep container tightly closed and in a well-ventilated
Incompatible materials		t sunlight.	
7.3. Specific end use(s)			
No additional information	n available		
SECTION 8: Exposure controls/personal protection			
8.1. Control para	neters		
Diethylene glycol (11	1-46-6)		
USA OSHA	OSHA PEL (TWA) (mg/	m³)	10 mg/m ³
ethylene glycol (107-	21-1)		
EU	IOELV TWA (mg/m ³)		52 mg/m ³ (Ethylene glycol; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV TWA (ppm)		20 ppm (Ethylene glycol; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV STEL (mg/m ³)		104 mg/m³ (Ethylene glycol; EU; Short time value; Indicative occupational exposure limit value)
EU	IOELV STEL (ppm)		40 ppm (Ethylene glycol; EU; Short time value; Indicative occupational exposure limit value)
Belgium	Limit value (mg/m³)		52 mg/m³ (Ethylèneglycol (en aérosol); Belgium; Time- weighted average exposure limit 8 h)

		Indicative occupational exposure limit value)
EU	IOELV STEL (ppm)	40 ppm (Ethylene glycol; EU; Short time value; Indicative occupational exposure limit value)
Belgium	Limit value (mg/m³)	52 mg/m ³ (Ethylèneglycol (en aérosol); Belgium; Time- weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	20 ppm (Ethylèneglycol (en aérosol); Belgium; Time- weighted average exposure limit 8 h)
Belgium	Short time value (mg/m³)	104 mg/m ³ (Ethylèneglycol (en aérosol); Belgium; Short time value)
Belgium	Short time value (ppm)	40 ppm (Ethylèneglycol (en aérosol); Belgium; Short time value)
France	VLE (mg/m ³)	104 mg/m ³ (Ethylèneglycol (vapeur); France; Short time value; VRI: Valeur réglementaire indicative)
France	VLE (ppm)	40 ppm (Ethylèneglycol (vapeur); France; Short time value; VRI: Valeur réglementaire indicative)
France	VME (mg/m³)	52 mg/m³ (Ethylèneglycol (vapeur); France; Time- weighted average exposure limit 8 h; VRI: Valeur réglementaire indicative)
France	VME (ppm)	20 ppm (Ethylèneglycol (vapeur); France; Time- weighted average exposure limit 8 h; VRI: Valeur réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH Ceiling (mg/m³)	100 mg/m³ (Ethylene glycol; USA; Momentary value; TLV - Adopted Value)
Netherlands	Grenswaarde TGG 8H (mg/m³)	52 mg/m ³ (Ethaan-1,2-diol (damp); Netherlands; Time- weighted average exposure limit 8 h; Public occupational exposure limit value; damp; Ethaan-1,2- diol (druppels); 10 mg/m ³ ; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value; druppels)

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ethylene glycol (107-21-1)		
Netherlands	Grenswaarde TGG 8H (ppm)	20 ppm (Ethaan-1,2-diol (damp); Netherlands; Time- weighted average exposure limit 8 h; Public occupational exposure limit value; damp; Ethaan-1,2- diol (druppels); 3.9 ppm; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value; druppels)
Netherlands	Grenswaarde TGG 15MIN (mg/m³)	104 mg/m³ (Ethaan-1,2-diol (damp); Netherlands; Short time value; Public occupational exposure limit value; damp)
Netherlands	Grenswaarde TGG 15MIN (ppm)	40 ppm (Ethaan-1,2-diol (damp); Netherlands; Short time value; Public occupational exposure limit value; damp)
United Kingdom	WEL TWA (mg/m³)	10 mg/m ³ Ethane-1,2-diol particulate; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005); Ethane-1,2-diol vapour; 52 mg/m ³ ; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL TWA (ppm)	20 ppm Ethane-1,2-diol vapour; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (mg/m³)	104 mg/m³ Ethane-1,2-diol vapour; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (ppm)	40 ppm Ethane-1,2-diol vapour; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)

8.2. Exposure controls

: Either local exhaust or general room ventilation is usually required.

- Appropriate engineering controls Personal protective equipment
- : Avoid all unnecessary exposure. Gloves. Protective clothing. Protective goggles. Safety

Hand protection Eye protection Skin and body protection

Respiratory protection Other information

- : Wear chemically resistant protective gloves. Wear suitable gloves resistant to chemical penetration.
- : Chemical goggles or safety glasses. Safety glasses.
- : Wear chemically protective gloves, lab coat or apron to prevent prolonged or repeated skin contact.
- : Wear appropriate mask.

glasses.

: Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical a	nd 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)	: Non flammable.
Relative density	: No data available
Solubility	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: No data available

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9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Not established.	
10.3. Possibility of hazardous reactions	
Not established.	
10.4. Conditions to avoid	
Direct sunlight. Extremely high or low temperature	S.
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition products	
No additional information available	
SECTION 11: Toxicological information	on
11.1. Information on toxicological effects	
Acute toxicity	: Oral: Harmful if swallowed. Dermal: Harmful in contact with skin.
Custom Glycols Mix	
ATE CLP (oral)	1225.698 mg/kg body weight
ATE CLP (dermal)	1189 mg/kg body weight
Diethylene glycol (111-46-6)	
LD50 oral rat	12.565 mg/kg
LD50 dermal rabbit	11.89 mg/kg
ATE CLP (oral)	12.565 mg/kg body weight
ATE CLP (dermal)	11.89 mg/kg body weight
ethylene glycol (107-21-1)	
LD50 oral rat	> 5000 mg/kg (Rat; Literature study)
ATE CLP (oral)	500 mg/kg body weight
Skin corrosion/irritation	: Not classified
	Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Not classified
	Based on available data, the classification criteria are not met
Respiratory or skin sensitization	: Not classified
	Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified
	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	: Not classified
	Based on available data, the classification criteria are not met
Specific target organ toxicity – single exposure	: Not classified
	Based on available data, the classification criteria are not met
Specific target organ toxicity – repeated	: Not classified
exposure	Based on available data, the classification criteria are not met
Aspiration hazard	Not classified
	Based on available data, the classification criteria are not met
Potential Adverse human health effects and	: Harmful if swallowed. Harmful in contact with skin.
symptoms	

SECTION 12: Ecological information 12.1. Toxicity

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ethylene glycol (107-21-1)	
EC50 Daphnia 1	> 10000 mg/l (EC50; 24 h)
LC50 fish 2	40761 mg/l (LC50; 96 h; Salmo gairdneri)

Custom Glycols Mix Not established. Persistence and degradability Not established. Persistence and degradability Readily biodegradable in water. Biodegradable in the soil. Biochemical oxygen demand (BOD) 0.47 g O_3g substance Chemical oxygen demand (COD) 1.24 g O_3g substance Denkical oxygen demand (COD) 1.28 g O_3/g substance BOD (% of ThOD) 0.36 2.3. Booccumulative potential Rotectumulative potential Not established. Btylene glycol (07-21-1) BOCF (her aquatic organisms 1 BCF fish 1 10 (BCF; 72 h) BCF other aquatic organisms 1 0.21 - 0.6 (BCF) BCF other aquatic organisms 2 190 (BCF; 24 h) Log Pow -1.34 (Experimential value) Bioaccumulative potential Low potential for bioaccumulation (BCF < 500). 2.4. Mobility in soil ethylene glycol (107-21-1) Sufface tension Sufface tension 0.048 N/m (20 °C) 2.5. Results of PBT and vPVB assessment o adultional information available 2.6. Other adverse effects dditional information : Avoid release t	12.2. Persistence and degradability	
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4.3. Packing group		
	14.3. Packing group	
4.4. Packing group	14.4. Packing group	
	Not applicable	

14.5. Environmental hazards

: No supplementary information available.

14.6. Special precautions for user

14.6.1. **Overland transport**

No additional information available

14.6.2. Transport by sea

No additional information available

Other information

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

14.6.3. Air transport

No additional information available

14.6.4. Inland waterway transport

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)

: 3 - strongly 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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