

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

1.1 Product Identifier:

Trade Name TRlstat PCG
INCI Name Phenoxyethanol (and) Caprylyl glycol

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against:

Product Use: Active ingredient in cosmetic and personal care applications

1.3 Details of the Supplier of the Safety Data Sheet:

Manufacturer: TRI-K INDUSTRIES, INC.
2 Stewart Court
Denville, NJ 07834
Information Phone Number: (973) 298-8850
E-mail info@tri-k.com

1.4 Emergency Telephone Number:

Emergency Spill Information (973) 298-8850 (TRI-K Industries, Inc.)
(800) 222-1222 (National Poison Control Center)

SDS Date of Revision: February 9, 2023

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

2.1.1 Classification according to REGULATION (EU) 2020/878:

Acute Toxicity – Category 4
Eye Irritation – Category 2A
For full text of H- and P- phrases: see SECTION 16

2.2 Label Elements: *Labeling according to Regulation (EC) No 1272/2008 [CLP]*



Signal word:

Warning

Hazard Statements:

H302; H319

Precautionary Statements:

P264, P270, P280, P301+P312, P305+P351+P338, P337+P313P, P330, P501

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- 2.3 Other Hazards:** None, provided on whether the substance meets the criteria for persistent, bio accumulative and toxic or very persistent and very bio accumulative in accordance with Annex XIII, whether the substance was included in the list established in accordance with Article 59(1) for having endocrine disrupting properties.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Chemical Identity of the substance	CAS#	EINECS#	DSD Classification (67/548/EEC)	CLP Classification (EC) No 1272/2008	%
2-Phenoxyethanol	Ethylene glycol monophenyl ether	122-99-6	204-589-7	Harmful; Xn; R22; S(2) Irritant; Xi; R36; S26	Acute Tox. 4 H302 Eye Irrit. 2A H319	53-58
1-2 Octanediol	Caprylyl glycol	1117-86-8	214-254-7	Irritant; Xi; R36	Eye Irrit. 2A H319	42-47

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures:

Eye Contact: Immediately flush eyes with water; remove contact lenses, if present, after the first 5 minutes, then continue flushing eyes for at least 15 minutes. Obtain medical attention without delay, preferably from an ophthalmologist. Eye wash fountain should be located in immediate work area.

Skin Contact: Immediately flush skin with water for at least 15 minutes while removing contaminated clothing and shoes. Obtain medical attention without delay, if necessary. Wash clothing before reuse. Safety shower should be located in immediate work area.

Inhalation: No specific treatment is necessary since material is not likely to be hazardous by inhalation. If exposed to excessive levels of vapors/aerosol, remove to fresh air and get medical attention if cough or other symptoms develop.

Ingestion: Rinse mouth thoroughly with water. If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

4.2 Most Important symptoms and effects, both acute and delayed:

Causes eye irritation and will be harmful if ingested.

4.3 Indication of any immediate medical attention and special treatment needed:

Treat symptomatically

SECTION 5: FIRE FIGHTING MEASURES

5.1 Suitable Extinguishing Media:

Dry chemical powder, CO₂, foam, water fog or fine spray

Unsuitable extinguishing media

Do not use direct water stream, which may spread fire

5.3 Special Hazards Arising from the Substance or Mixture:

Unusual Fire and Explosion Hazards: None known

Hazardous Decomposition Products: During a fire, smoke may contain the original material in addition to combustion products of varying composition, which may be toxic and/or irritating. Combustion products may include and are not limited to: carbon monoxide, carbon dioxide

5.4 Advice for Fire-Fighters:

Special Fire Fighting Procedures:

Wear positive-pressure self-contained breathing apparatus and protective fire-fighting clothing (includes fire-fighting helmet, coat, trousers, boots and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protective equipment. Wash hands after exposure with the substance. Restrict unnecessary and unprotected personnel from entering the area.

6.2 Environmental Precautions:

Prevent from entering into soil, ditches, sewers, waterways and/or ground water. Contain contaminated water/fire-fighting water. Do not discharge into drain/surface water/ground water.

6.3 Methods and Material for Containment and Cleaning Up:

Sweep up or vacuum up spillage and collect in suitable container for disposal. Follow all Local, State and Federal regulations.

6.4 Reference to Other Sections:

Refer to Section 8 for protective equipment and Section 13 for disposal considerations

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling:

Follow general occupational hygiene such as wash hands before and after use. Do not eat, drink or smoke in work areas. Remove contaminated clothing. Avoid spill. Follow safe procedures for loading and un-loading of products. Dispose of rinse water in accordance with local and national regulations.

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7.2 Conditions for Safe Storage, Including any Incompatibilities:

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.
Electrical installations / working materials must comply with the technological safety standards.

7.3 Advice on general occupational hygiene:

- (a) not to eat, drink and smoke in work areas.
- (b) to wash hands after use; and
- (c) to remove contaminated clothing and protective equipment before entering eating areas.

7.4 Suitable packing materials

HMHDPE carboys, stainless steel, carbon steel, ISO container, IBC

7.5 Unsuitable packing materials

Mild steel

7.6 Specific end use(s): Active preservative ingredient in cosmetic and personal care applications

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters:

Substance	2-Phenoxyethanol			
CAS No.	122-99-6			
	Limit value - Eight hours		Limit value - Short term	
	ppm	mg/m ³	ppm	mg/m ³
Austria	20	110	20	110
Canada - Ontario	25	141		
Germany (AGS)	20 (1)	110 (1)	40 (1)(2)	220 (1)(2)
Germany (DFG)	20 (1)	110 (1)	40 (1)(2)	220 (1)(2)
Poland		230		
Switzerland	20	110	40	220
	Remarks			
Germany (AGS)	(1) Inhalable aerosol and vapour (2) 15 minutes reference period			
Germany (DFG)	(1) Inhalable fraction and vapour (2) 15 minutes reference period			

Source: Based on GESTIS International Limit Values Database on 04/08/2014 via: http://limitvalue.fsa.dguv.de/WebForm_ueliste.aspx

8.2 Exposure Controls

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8.2.1 Engineering measures: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

8.2.2 Individual protection measures, such as personal protective equipment:

Hand Protection: Protective gloves

SKIN PROTECTION: Wear normal work gloves

Body Protection: None required under normal conditions of use

Respiratory Protection: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Eye Protection: Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor, or mist.

Other: Employees must practice good personal hygiene, washing exposed areas of the skin several times daily. Launder contaminated clothing before re-use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic Physical and Chemical Properties:

Appearance: clear colorless to light yellow liquid	Vapor Pressure: not determined
Odor: characteristic	Vapor Density: No data available
Odor Threshold: No data available	Relative density: No data available
Specific gravity: 1.02	Solubility (ies): No data available Water Solubility: No data available
Freezing point: not determined	Partition coefficient: No data available
Initial Boiling Point & Range: No data available	Auto-ignition Temperature: No data available
Flash Point: 261-261°F	Decomposition Temperature: No data available
Evaporation Rate: No data available	Viscosity: No data available
Flammability (solid, gas): Non flammable	Explosion Properties: Not available
Upper/lower flammability or explosive limits: Not applicable	Oxidizing Properties: Not determined

9.2 Other Information:

None

SECTION 10: STABILITY AND REACTIVITY

- 10.1 Reactivity:**
No hazardous reaction, if stored and handled as prescribed (Refer section 7)
- 10.2 Chemical Stability:**
Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure
- 10.3 Possibility of Hazardous Reactions:**
Not anticipated when used or handled as prescribed
- 10.4 Conditions to Avoid:**
Sunlight, extreme heat, flame and other sources of ignition
- 10.5 Incompatible Materials:**
Strong acids, strong bases and strong oxidizing agents
- 10.6 Hazardous Decomposition Products:**
Will not form, if stored or handled as prescribed

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

Acute toxicity:	Not classified based on available information.
PHENOXYETHANOL:	
Acute oral toxicity:	LD 50 (Rat): 1,850 mg/kg (OECD Test Guideline 401)
Acute inhalation toxicity:	No adverse effect has been observed in acute inhalation toxicity test
1,2-OCTANEDIOL:	LD 50 (Rat): > 2,000 mg/kg (OECD Test Guideline 401)
Acute oral toxicity:	GLP: yes No adverse effect has been observed in acute oral toxicity tests.
Acute inhalation toxicity:	LC 50 (Rat): > 7.015 mg/l (OECD Test Guideline 403) Exposure time: 4 h Test atmosphere: dust/mist Information given is based on data obtained from similar substances.
Skin corrosion/irritation:	Not classified based on available information. May cause skin irritation in susceptible persons.
2-PHENOXYETHANOL:	(Rabbit) Not irritating to skin
1,2-OCTANEDIOL:	(Rabbit) Not irritating to skin.
Serious Eye damage/ Eye Irritation:	Causes serious eye irritation. Vapors may cause irritation to the eyes, respiratory system. and the skin., Causes serious eye irritation.
2-PHENOXYETHANOL:	(Rabbit) Irritating to eyes

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1,2-OCTANEDIOL: (Rabbit) Irritating to eyes.

Respiratory or skin sensitization:

Skin sensitization: Not classified based on available information.

Respiratory sensitization: Not classified based on available information.

Components:

2-PHENOXYETHANOL: (Guinea Pig) Does not cause skin sensitization (OECD Test Guideline 406)

1,2-OCTANEDIOL: Test Type: Local lymph node assay
(Mouse) Did not cause sensitization (OECD Test Guideline 429)
GLP: yes

Germ cell mutagenicity: Not classified based on available information.

Components:

2-PHENOXYETHANOL:

Genotoxicity in vitro:

Test Type: Ames test
Test species: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Result: negative

1,2-OCTANEDIOL:
Genotoxicity in vitro:

Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes

Reproductive toxicity:

STOT - Single Exposure:

STOT - repeated exposure:

Aspiration toxicity:

Not classified based on available information.
Not classified based on available information.
Not classified based on available information.
Not classified based on available information.

Carcinogenicity:

None of the components are listed as a carcinogen by IARC, NTP, OSHA, ACGIH or the EU Substances Directive (EC) No 1272/2008 for CMR, categories 1A and 1B

SECTION 12: ECOLOGICAL INFORMATION

12.1 Ecotoxicity

Components:

2-PHENOXYETHANOL:

Toxicity to fish:

LC 50 (Fathead minnow (Pimephales promelas)): 337 - 352 mg/l

Exposure time: 96 h

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	Test Type: flow-through test
Toxicity to daphnia and other aquatic invertebrates:	EC50 (Daphnia magna (Water flea)): > 500 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202
Toxicity to algae	NOEC (Desmodesmus subspicatus (green algae)): > 500 mg/l End point: Growth inhibition Exposure time: 72 h Test Type: static test
Toxicity to fish (Chronic toxicity)	NOEC (Pimephales promelas (fathead minnow)): 23 mg/l Exposure time: 34 d Test Type: flow-through test Method: OECD Test Guideline 210
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity):	NOEC (Daphnia (water flea)): 9.43 mg/l Exposure time: 21 d End point: Reproduction Test Test Type: semi-static test Method: OECD Test Guideline 211
1,2-OCTANEDIOL: Toxicity to fish:	LC 50 (Danio rerio (zebra fish)): > 2.2 - < 22.2 mg/l Exposure time: 96 h Test Type: static test
Toxicity to daphnia and other aquatic invertebrates	EC 50 (Water flea (Daphnia magna)): 176 mg/l Exposure time: 48 h Test Type: semi-static test Method: OECD Test Guideline 202
Toxicity to algae	EC 50 (Pseudokirchneriella subcapitata (green algae)): 35 MG/L End point: Growth inhibition Exposure time: 72 h Method: OECD Test Guideline 201 GLP: yes

12.2 Persistence and degradability

Components:

2-PHENOXYETHANOL:

Biodegradability	Result: Readily biodegradable Biodegradation: 99 % Exposure time: 28 d
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Method: OECD Test Guideline 301F

1,2-OCTANEDIOL:
Biodegradability

Result: Readily biodegradable
Biodegradation: 75 %
Exposure time: 28 d
Method: OECD Test Guideline 301D
Remarks: Readily biodegradable

12.3 Mobility in Soil
No Data Available

12.2 Bioaccumulative Potential

Components:

2-PHENOXYETHANOL:
Partition coefficient: n-
octanol/water

log Pow: 1.16

1,2-OCTANEDIOL:
Partition coefficient: n-
octanol/water

log Pow: 1.0

Additional ecological
information

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

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Dispose of contents/container in accordance with local/regional/national/international regulations. The product should not be allowed to enter drains, water courses, or soil. Do not contaminate ponds. Waterways, with chemical or used container.
Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: TRANSPORT INFORMATION

	US DOT	EU land transport (ADR/RID/ADN)	Sea Transport (IMDG)	Air Transport (ICAO/IATA)
14.1 UN Number	None	None	None	None
14.2	Not regulated	Not regulated	Not regulated	Not regulated

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UN Proper Shipping Name				
14.3 Transport Hazard Class(s)	Not classified as dangerous according to transport regulations	Not classified as dangerous according to transport regulations	Not classified as dangerous according to transport regulations	Not classified as dangerous according to transport regulations
14.4 Packing Group	None	None	None	None
14.5 Environmental Hazards	Not applicable	Not applicable	Not applicable	Not applicable
14.6 Special Precautions for user	None	None	None	None
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable	Not applicable	Not applicable	Not applicable

SECTION 15: REGULATORY INFORMATION

15.1 Safety, Health and Environment Regulations/Legislation Specific for the Substance or Mixture:

EU EINECS/ELINCS/NLP:	Listed
Canada DSL/NDSL:	Listed on the DSL.
US TSCA	Listed
Korea KECI:	Listed
China IECSC:	Listed
Japan ENCS:	Listed
Australia AICS:	Listed
New Zealand NZIoC:	Listed

15.2 Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this mixture by the supplier and it has been deemed safe based on appropriate use in section 1.2 and 7.4 in this Safety data sheet.

SECTION 16: OTHER INFORMATION

16.1 Indication of Changes

GHS_CLP SDS – version 1 on Jan 6, 2020
 GHS_CLP SDS – version 2 on Sept 20, 2020
 GHS_CLP SDS – version 3 on Oct 20, 2020
 GHS_CLP SDS- version 4 on December 16, 2020
 GHS_CLP SDS- version 5 on February 9, 2023

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16.2 List of Relevant CLP Phrases for reference (See Section 2 and 3)

R- phrases (number and full text):

Hazard Phrases:

H302 – Harmful if swallowed

H319 – Causes serious eye irritation

Precautionary Phrases:

P-200 Prevention

P264 – Wash skin thoroughly after handling

P270 – Do not eat, drink or smoke when using this product.

P280 – Wear protective gloves/protective clothing/eye protection/face protection.

P-300 Response

P301+P312 – IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell.

P337+P313P – IF eye irritation persists: Get medical advice/attention.

P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P330 – Rinse Mouth

P-500 Disposal

P501 – Dispose of contents/container in accordance with local and/or federal regulation.

16.2 Legal Disclaimer

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