

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

**1.1 Product Identifier:**

**Trade Name** TRIstat ECO  
**INCI Name** Benzyl Alcohol, Glyceryl Caprylate, Glyceryl Undecylenate

**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:**

**Supplier:** TRI-K INDUSTRIES, INC.  
2 Stewart Court  
Denville, NJ 07834  
**Information Phone Number:** +1 (973) 298-8850  
**E-mail** info@tri-k.com

**1.4 Emergency Telephone Number:**

**Emergency Spill Information** +1 (973) 298-8850 (TRI-K Industries, Inc.)  
+1 (800) 222-1222 (National Poison Control Center)

**24-HOUR EMERGENCY TELEPHONE NUMBER** CHEMTREC +1 (800) 424-9300 or +1 (703) 527-3887

**SDS Date of Revision:** September 20, 2018

**SDS Date of Preparation:** July 26, 2013

**SECTION 2: HAZARDS IDENTIFICATION**

**2.1 GHS Classification**

**GHS Classification**  
Eye Irritation – Category 2, H319

**EU Classification (67/548/EEC):** Harmful; Xn; R20/22

**2.2 GHS Label element**



**Signal Word** : Warning

**Hazard Statements** : H302 – Harmful if swallowed  
H319 – Causes serious eye irritation  
H332 – Harmful if inhaled

**Precautionary Statements** : P261 – Avoid breathing vapors  
P280 – Wear eye protection/face protection

**Response:**  
P312 – Call a POISON CENTER or doctor/physician if you feel unwell  
P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 – If eye irritation persists: Get medical attention

2.3 Other Hazards: None

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS#	EINECS#	DSD Classification (67/548/EEC)	CLP Classification (EC) No 1272/2008	%
Benzyl Alcohol	100-51-6	202-859-9	Xn; R20/22	H302; H332; H319	43 – 47%
Glyceryl Caprylate	26402-26-6	247-668-1	Not classified as dangerous	Not classified as hazardous	39 – 43%
Glyceryl Undecylenate	65684-27-7	236-935-8	Not classified as dangerous	Not classified as hazardous	14 – 16%

**Additional information:** For full text of H-statements and R-phrases: see SECTION 16

**SECTION 4: FIRST AID MEASURES**

4.1 Description of First Aid Measures

**Eye Contact:** Irrigate immediately under running water with eyelids held open for at least 15 minutes. Consult a physician immediately.

**Skin Contact:** Remove contaminated clothes. Wash off with large amounts of water and soap.

If irritation persists consult a physician.

**Inhalation:** Remove to fresh air. Consult a physician immediately.

**Ingestion:** Rinse mouth. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician immediately.

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

**Inhalation:** Harmful. May cause irritation of the respiratory tract.

**Skin contact:** May cause slight skin irritation.

**Eye contact:** Causes eye irritation, pain, swelling, lacrimation and photophobia.

**Ingestion:** Harmful. May cause irritation of esophagus and gastrointestinal tract.

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

Treat symptomatically and supportively.

### SECTION 5: FIRE FIGHTING MEASURES

#### 5.1 Extinguishing Media:

Carbon dioxide, foam, dry chemical powder, water spray. Avoid strong water jet.

#### 5.2 Special Hazards Arising from the Substance or Mixture:

**Hazardous Decomposition Products:** Formation of carbon monoxide, carbon dioxide in the event of fire or during thermal decomposition

#### 5.3 Special Protective Action for Fire-Fighters:

**Special Fire Fighting Procedures:** Wear suitable protective equipment and self-contained breathing apparatus with a full face-piece operated in positive pressure mode (EN 137). Use water spray to cool closed containers at risk from fire and, if possible, remove them from the danger area. Do not discharge contaminated extinguish water into the soil, surface water, groundwater or sewer system. See Section 13.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Use suitable personal protective equipment as recommended in Section 8. Ensure an adequate ventilation. Remove all the ignition sources. Do not breathe the vapors. Avoid eye contact.

#### 6.2 Environmental Precautions:

Prevent contamination of soil, surface water, and groundwater or sewer system.

#### 6.3 Methods and Material for Containment and Cleaning Up:

Wipe up and soak up with inert absorbent material (sand, universal binder, sawdust). Collect in suitable container for disposal. Wash contaminated surfaces with water.

#### 6.4 Reference to Other Sections:

Treat recovered material as prescribed in Section 13

**SECTION 7: HANDLING AND STORAGE**

**7.1 Precautions for Safe Handling:**

Wear personal protective equipment as recommended in Section 8. Handle in accordance with good industrial hygiene and safety practices.

Wash hands after handling. Remove contaminated clothing and wash before reuse. Do not eat, drink or smoke while handling. Ensure adequate ventilation. Do not breathe the vapors. Avoid contact with eyes.

**7.2 Conditions for Safe Storage, Including any Incompatibilities:**

Keep away from sources of ignition. Take precautions against accumulation of electrostatic charge.

Keep the original tightly-closed containers in a cool, dry place. Protect from frost, heat and direct sunlight.

**7.3 Specific end use(s):** See Section 1

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control Parameters:**

Chemical Name	8.1.1 Occupational Exposure Limits:	8.1.2 Additional exposure limits under the conditions of use:	8.1.3 DNEL/DMEL and PNEC-Values:
Benzyl Alcohol	No limits established	Not Available	Not Available
Glyceryl Caprylate	No limits established	Not Available	Not Available
Glyceryl Undecylenate	No limits established	Not Available	Not Available

**8.2 Exposure Controls:**

**8.2.1 Appropriate Engineering Controls:** General mechanical ventilation is acceptable. May form combustible dust.

**8.2.2 Individual protection measures, such as personal protective equipment:**

**Eye/face protection:** Wear airtight protective goggles (see standard EN 166).

**Hand Protection:** Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be

unpredictable. The gloves' wear time depends on the duration and type of use.

**Body Protection:** Wear category I professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

**Respiratory Protection:** If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

**Thermal Hazards:** None required under normal conditions of use

**Other:** As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration. Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

**8.2.3 Environmental Exposure Controls:** The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic Physical and Chemical Properties:

<b>Appearance:</b> Clear, yellowish liquid	<b>Vapor Pressure:</b> Not available
<b>Odor:</b> Light typical	<b>Vapor Density:</b> Not available
<b>Odor Threshold:</b> No data available	<b>Relative Density:</b> 1.026 – 1.030 g/mL @ 20°C
<b>pH:</b> 5 @ 20°C	<b>Water Solubility:</b> Partially soluble
<b>Melting Point / freezing point:</b> Not available	<b>Partition coefficient: n-octanol/water:</b> Not available
<b>Boiling Point:</b> Not available	<b>Auto-ignition Temperature:</b> Not available
<b>Flash Point (COC):</b> > 60°C	<b>Decomposition Temperature:</b> Not available
<b>Evaporation Rate:</b> Not available	<b>Viscosity (cP):</b> Not available

<b>Flammability (solid, gas):</b> Not applicable	<b>Explosion Properties:</b> Not available
<b>Upper/lower flammability or explosive limits:</b> Not available	<b>Oxidizing Properties:</b> Not available

**9.2 Other Information:**  
None

**SECTION 10: STABILITY AND REACTIVITY**

- 10.1 Reactivity:**  
None known
- 10.2 Chemical Stability:**  
Stable if handled and stored as recommended in Section 7
- 10.3 Possibility of Hazardous Reactions:**  
See below
- 10.4 Conditions to Avoid:**  
Heat
- 10.5 Incompatible Materials:**  
Strong oxidizing agents, strong acids (exothermic reactions).
- 10.6 Hazardous Decomposition Products:**  
Carbon oxides

**SECTION 11: TOXICOLOGICAL INFORMATION**

- 11.1 Information on Toxicological Effects:**  
No specific toxicological data are available for the mixture, which is assessed on the basis of data available for hazardous substances and their concentration in the mixture.

**Acute oral toxicity (rat):** LD50 = 1230 mg/kg  
**(BA) Acute dermal toxicity (rabbit):** LD50 = 2000 mg/kg (BA)  
**Acute inhalation toxicity (rat):** LC50 > 500 mg/m<sup>3</sup> (BA)  
**Sub-chronic oral toxicity (rat):** NOAEL = 400 mg/kg/d (90 days, BA)  
**Skin irritation (rabbit):** Non-irritating  
**Eye irritation (rabbit):** Irritating  
**Sensitization (guinea pig):** Not-sensitizing  
**Chronical toxicity:** No carcinogenic, mutagenic or teratogenic effects known.

**SECTION 12: ECOLOGICAL INFORMATION**

**12.1 Toxicity:**

No specific ecological data available for the mixture, which is assessed on the basis of data available for hazardous substances and their concentration in the mixture.

EC50 (24h) = 400 mg/L (Daphnia magna)  
 (BA) EC50 = 658 mg/L (Pseudomonas putida)  
 EC50 (96h) = 640 mg/L (Scenedesmus quadricauda)  
 LC50 (48h) = 646 mg/L (Leuciscus idus)  
 LC50 (96h) = 650 mg/L (Pimephales promelas)  
 EC50 (24h) = 400 mg/L (Daphnia magna)  
 (BA) EC50 = 658 mg/L (Pseudomonas putida)

**12.2 Persistence and Degradability:**

Components are biodegradable

**12.3 Bio accumulative Potential:**

Low; Log Kow = 1.10 (BA)

**12.4 Mobility in Soil:**

Not available

**12.5 Results of PBT and vPvB Assessment:**

Not available

**12.6 Other Adverse Effects:**

None known

**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1 Waste Treatment Methods:**

Product residues should be packaged, sealed, labeled and disposed of or incinerated in a suitable installation according to relevant local and national regulations.

Contaminated empty containers should be treated in the same manner as the content.

**SECTION 14: TRANSPORT INFORMATION**

	US DOT	EU land transport (ADR/RID/ADN)	Sea Transport (IMDG)	Air Transport (ICAO/IATA)
<b>14.1 UN Number</b>	Not applicable	Not applicable	Not applicable	Not applicable

<b>14.2</b> UN Proper Shipping Name	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.3</b> Transport Hazard Class(s)	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.4</b> Packing Group	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5</b> Environmental Hazards	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.6</b> Special Precautions for user	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.7</b> 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 environmental regulations/legislation specific for the substance

Seveso Category: none

Restrictions on product or on contained substances (Annex XVII REACH): point 3

Substances in Candidate List (Art. 59 REACH): none

Substances under authorization (Annex XIV REACH): none

Substances under export notification Reg. (EC) 689/2008: none

Reg. EC n.1223/2009: Benzyl alcohol, annex V

<b>EU EINECS/ELINCS/NLP:</b>	Listed
<b>Canada DSL/NDSL:</b>	Listed
<b>USA TSCA:</b>	CAS no. 92113-31-0 is not listed
<b>Korea KECI:</b>	CAS no. 92113-31-0 is not listed
<b>China IECSC:</b>	Listed
<b>Japan ENCS:</b>	All of the components are listed on the Japanese Existing and New Chemical Substances Inventory.
<b>Philippine PICCS:</b>	Listed
<b>Australia AICS:</b>	Listed
<b>New Zealand NZIoC</b>	Listed

##### 15.2 Chemical Safety Assessment:

Not available



**SECTION 16: OTHER INFORMATION**

**SDS Revision History:**

SDS Generated: July 26, 2013

SDS Revision 1:

SDS Revision 2:

SDS Revision 3:

**GHS Phrases for Reference (See Section 2 and 3):**

Hazard Phrases:

H302 – Harmful if swallowed

H319 – Causes serious eye irritation

H332 – Harmful if inhaled

Precautionary Phrases:

Prevention:

P261 – Avoid breathing vapors

P280 – Wear eye protection/face protection

Response:

P312 – Call a POISON CENTER or doctor/physician if you feel unwell

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

Continue rinsing.

P337+P313 – If eye irritation persists: Get medical attention

**EU Classes and Risk Phrases for Reference (See Sections 2 and 3):**

Hazard Symbol:

Xn – Harmful

Risk Phrases:

R20 – ff

R22 – Harmful if swallowed

**Legal Disclaimer**

The statements contained in this document are for informational purposes only and are intended to be generally representative of the raw material supplied by Tri-K Industries, Inc. or its affiliates (collectively, "Tri-K"). They are derived from information obtained from tests and analysis, including those conducted by Tri-K's vendors. The recipient of this document is cautioned against relying on it without independent investigation as to the accuracy and completeness of the statements set forth herein, or the suitability or fitness of the raw material for any particular purpose. This document does not constitute a representation or warranty by Tri-K; the parties' written agreement is the sole and exclusive source of any representation or warranty. TRI-K HEREBY DISCLAIMS ANY AND ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.