

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

1.1 Product identifier

Trade name TRlstat ECO

1.2 Relevant identified uses of the substance and uses advised against

Description Antimicrobial preserving system
 Use conditions Industrial manufacturing
 Applications Manufacture of cosmetics
 Uses advised against None known

1.3 Details of the supplier of the Safety Data Sheet

Company/Undertaking Identification

TRI-K, Industries, Inc.
 2 Stewart Court
 Denville, NJ 07834, USA
 Tel: 973-298-8850, Fax: 973-298-8940

Emergency telephone number

TRI-K, Inc: Tel: 973-298-8850
 National Poison Control Center: Tel: 800-222-1222

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation ECn. 1272/2008:

Acute Tox. 4, H302
 Acute Tox. 4, H332
 Eye Irrit. 2, H319

Classification according to Directive 67/548/EEC(DSD) and 1999/45/EC:

Harmful; Xn; R20/22

2.2 Label elements

Hazard Pictogram



Warning

Hazard Statements

H302
 Harmful if swallowed.
H332
 Harmful if inhaled
H319
 Causes serious eye irritation.

Precautionary Statements

P261
 Avoid breathing vapors
P280
 Wear eye protection/face protection
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.

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2.3 Other hazards None

SECTION 3: Composition/information on ingredients

3.1 Substances Not applicable

3.2 Mixtures

Components	% Weight	Classification 67/548/EEC	Classification 1272/2008/EC	CAS n°	EINECS n°
Benzyl alcohol (BA)	45	Xn R20/22	Acute Tox. 4 H302 Acute Tox. 4 H332 Eye irrit. 2 H319	100-51-6	202-859-7

SECTION 4: First aid measures

4.1 Description of first aid measures

- Inhalation** Remove to fresh air. Consult a physician immediately.
- Skin contact** Remove contaminated clothes. Wash off with large amounts of water and soap. If irritation persists consult a physician.
- Eye contact** Irrigate immediately under running water with eyelids held open for at least 15 minutes. 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

Formation of carbon monoxide (CO), carbon dioxide (CO₂) in the event of fire or during thermal decomposition.

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5.3 Advice for fire-fighters

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

See Section 1.

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SECTION 8: Exposure controls/personal protection

8.1 Professional exposure limit None

8.2 Exposure controls

Observe the usual precautionary measures in handling the chemicals to keep a minimal exposure. Facilities should be equipped with an eyewash and a safety shower.

Respiratory protection

Use a mask with filter type A (EN 141) when performing operations involving exposure to vapor or aerosol of the product. Ensure that the mask provides the necessary level of protection for the type and concentration of the contaminants in the area where the mask is intended for use.

Hand protection

Use chemical resistant protective gloves e.g. PVC, nitrile (EN 374). Gloves should be replaced immediately if signs of degradation are observed.

Eye protection

Use safety glasses (EN 166).

Body protection

Wear protective working clothing.

Environmental exposure controls

Emissions from production processes and ventilation units should be controlled in compliance with environmental regulations.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Clear, yellowish liquid
Odour	Light typical
Odour threshold	Not available
pH (20°C)	5
Melting point / freezing point	Not available
Boiling point / boiling range	Not available
Flash point	Not available
Evaporation rate	Not available
Flammability (solid, gas)	Not applicable
Upper/lower flammability limits	Not available
Explosive limits	Not available
Vapour pressure	Not available
Vapour density	Not available
Relative density (20°C)	1.032 g/mL
Solubility (20°C)	Soluble in water
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available

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Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	Not available
Oxidizing properties	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 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/m3 (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.

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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)

12.2 Persistence and degradability

Components are biodegradable.

12.3 Bioaccumulative potential

Low Log Kow = 1.10 (BA)

12.4 Mobility in soil

Not available

12.5 Results of PBT e 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

14.1 ONU Number Not applicable
 14.2 UN proper shipping name Not applicable
 14.3 Transport hazard class Not applicable
 14.4 Packing group Not applicable
 14.5 Environmental hazards Not applicable
 14.6 Special precautions for user Not applicable
 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable

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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

15.2 Chemical safety assessment (CSR)

Not available

SECTION 16: Other information

Modifications

First emission

Risk phrases (R) in sections 2-3

R20/22

Harmful if inhaled and swallowed.

R36

Irritating to eyes.

Hazard statements (H) in sections 2-3

Acute Tox. 4

Acute Toxicity, category 4.

Eye Irrit. 2

Eye Irritation, category 2.

H302

Harmful if swallowed.

H332

Harmful if inhaled.

H319

Causes serious eye irritation.

Bibliography MERCK INDEX, ESIS, ECHA, TOXNET, NIOSH, RTECS, HSDB, INT. J TOX.

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