

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

1.1 Product Identifier:

Trade Name TRIstat E
INCI Name Benzyl alcohol, Water, Potassium sorbate, Sodium benzoate

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)

**24-HOUR EMERGENCY
TELEPHONE NUMBER**

CHEMTREC +1 (800) 424-9300 or +1 (703) 527-3887

SDS Date of Preparation: July 29, 2015

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture.

The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication: Acute toxicity, category 4 H302 Harmful if swallowed.
Eye irritation, category 2 H319 Causes serious eye irritation.

2.2. Label elements.

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.



Signal words: Warning

Hazard statements:

H302 Harmful if swallowed.

Precautionary statements:

P280 Wear eye protection / face protection. P301+P312 IF SWALLOWED: call a POISON CENTER / doctor 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 advice / attention. Contains: Benzyl alcohol

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

The full wording of hazard (H) phrases is given in section 16 of the sheet.

Identification.	Conc. %.	
Benzyl alcohol CAS. 100-51-6 EC. 202-859-9 INDEX. 603-057-00-5 Reg. no. 01-2119492630-38	52	Acute Tox. 4 H302, Acute Tox. 4 H332, Eye Irrit. 2 H319
Potassium (E,E)-hexa-2,4-dienoate CAS. 24634-61-5 EC. 246-376-1 INDEX. -	16	Eye Irrit. 2 H319
Sodium Benzoate CAS. 532-32-1 EC. 208-534-8 INDEX. - Reg. no. 01-2119460683-35	11	Eye Irrit. 2 H319

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:

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before

using it again.

INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.

INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless authorized by a doctor.

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

Not expected to be a skin or eye irritant (based on available data). Non-toxic by oral ingestion (based on nature of material). No other adverse clinical effects are known to be associated with exposure to this material.

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

No immediate medical treatment normally needed.

SECTION 5: FIRE FIGHTING MEASURES

5.1 Suitable Extinguishing Media:

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

5.2 Special Hazards Arising from the Substance or Mixture:

Unusual Fire and Explosion Hazards: None known

Hazardous Decomposition Products: None known

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

5.3 Advice for Fire-Fighters:

Special Fire Fighting Procedures:

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal firefighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6: ACCIDENTAL RELEASE MEASURES

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6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2 Environmental Precautions:

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3 Methods and Material for Containment and Cleaning Up:

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Check incompatibility for container material in section 7. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

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:

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2 Conditions for Safe Storage, Including any Incompatibilities:

Store at room temperature in tightly sealed containers. Avoid temperatures above 40°C as this may affect the efficacy of the product. Optimum storage temperature is 24°C or lower. Do not freeze. Avoid exposure to sunlight for prolonged periods.

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

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters:

Sodium Benzoate

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers.				Effects on workers		
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local
Oral				25 mg/kg/d			
VND							
Inhalation.		1,3 mg/m ³		2,1 mg/m ³	6,3 mg/m ³		10,4 mg/m ³
Skin.		2,7 mg/cm ²		VND	4,5 mg/cm ²		VND

Benzyl alcohol

Predicted no-effect concentration - PNEC.

Normal value in fresh water	1	mg/l
Normal value for marine water	0,527	mg/l
sediment		
Normal value for water, intermittent release	2,3	mg/l
Normal value of STP microorganisms	39	mg/l
Normal value for the terrestrial compartment	0,456	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Effects on consumers.

Route of exposure	Effects on consumers.				Effects on workers		
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local
Oral	VND	25 mg/kg	VND	5 mg/kg			
Inhalation	VND	95,5 mg/m ³	VND	19,1 mg/m ³	VND	450 mg/m ³	VND
Skin.	VND	28,5 mg/kg	VND	5,7 mg/kg	VND	47 mg/kg	VND

8.2 Exposure Controls:

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.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves.

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.

SKIN 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.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

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.

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:

Appearance: Liquid, Yellow	Vapor Pressure: Not determined
Odor: Characteristic	Vapor Density: Not determined
Odor Threshold: No data available	Specific Gravity: Not Determined
pH: 8	Water Solubility: Soluble
Melting Point / freezing point: Not determined	Partition coefficient: n-octanol/water: Not Available
Boiling Point: Not applicable	Auto-ignition Temperature: Not Available
Flash Point (COC): > 60 °C.	Decomposition Temperature: Not Available
Evaporation Rate: Not Applicable	Viscosity (cP): Not determined
Flammability (solid, gas): Not Applicable	Explosion Properties: Not determined
Upper/lower flammability or explosive limits: Not Applicable	Oxidizing Properties: None

9.2 Other Information:

None

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

There are no particular risks of reaction with other substances in normal conditions of use.

10.2 Chemical Stability:

The product is stable in normal conditions of use and storage

10.3 Possibility of Hazardous Reactions:

No hazardous reactions are foreseeable in normal conditions of use and storage

10.4 Conditions to Avoid:

Gross bacterial contamination and Heat

10.5 Incompatible Materials:

Oxidant agents.

10.6 Hazardous Decomposition Products:

Burning can produce smoke, CO, CO₂, ammonia and other products of incomplete combustion

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

Acute effects: ingestion of this product is harmful. Even small amounts of product may cause serious health problems (stomach pain, nausea, sickness, diarrhoea).

Acute effects: stinging eyes. Symptoms may include: rubescence, edema, pain and lachrymation.

Ingestion may cause health problems, including stomach pain and sting, nausea and sickness.

Benzyl alcohol

Acute oral toxicity (rat) LD50 = 1230 mg/kg

Acute dermal toxicity (rabbit) LD50 = 2000 mg/kg

Acute inhalation toxicity (rat) LC50 > 500 mg/m³/4h

Subchronic oral toxicity (rat) NOAEL = 400 mg/kg/day (90 days)

Skin irritation (rabbit) Not irritating

Eye irritation (rabbit) Irritating

Sensitization (guinea pig) Not sensitizing

Chronical toxicity No carcinogenic, mutagenic or teratogenic effect known.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

Benzyl alcohol

LC50 - for Fish. 460 mg/l/96h Pimephales promelas

EC50 - for Crustacea. 230 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants. 310 mg/l/72h Pseudokirchneriella subcapitata

Sodium Benzoate

LC50 - for Fish. > 100 mg/l/96h OECD
203

EC50 - for Crustacea. > 100 mg/l/48h
Daphnia magna

Chronic NOEC for Crustacea. 51 mg/l/21d Daphnia magna

Potassium (E,E)-hexa-2,4-dienoate
LC50 - for Fish. 1250 mg/l/96h
Brachydanio rerio
EC50 - for Crustacea. 982 mg/l/48h
Daphnia magna

12.2 Persistence and Degradability:

Benzyl alcohol

Rapidly biodegradable.

Sodium Benzoate Solubility in water. 556 g/l 20°C

Rapidly biodegradable.

Potassium (E,E)-hexa-2,4-dienoate

Rapidly biodegradable.

12.3 Bio accumulative Potential:

Benzyl alcohol

Partition coefficient: n-octanol/water. 1,05

BCF. 1,37

Sodium Benzoate

Partition coefficient: n-octanol/water. -2,27

Potassium (E,E)-hexa-2,4-dienoate

Partition coefficient: n-octanol/water. -1,72

12.4 Mobility in Soil:

Since the product is completely soluble in water, it is expected to be highly mobile in soil.

12.5 Results of PBT and vPvB Assessment:

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Other Adverse Effects:

Information Not Aviable

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

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Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14: TRANSPORT INFORMATION

	US DOT	EU land transport (ADR/RID/ADN)	Sea Transport (IMDG)	Air Transport (ICAO/IATA)
14.1 UN Number				
14.2 UN Proper Shipping Name	Not regulated	Not regulated	Not regulated	Not regulated
14.3 Transport Hazard Class(s)				
14.4 Packing Group				
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:	All of the components of this product are listed on the EINECS Inventory.
Canada DSL/NDSL:	All of the components of this product are listed on the DSL.
US TSCA	All of the components of this product are listed on the US TSCA.
China IECSC:	All of the components of this product are listed on the IECSC.

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Japan ENCS:	All of the components are listed on the Japanese Existing and New Chemical Substances Inventory.
Philippine PICCS:	All of the components of this product are listed on the PICCS.
Australia AICS:	All of the components of this product are listed on the AICS.

15.2 Chemical Safety Assessment:

Not required

SECTION 16: OTHER INFORMATION

16.1 Indication of Changes

Version 1 created on July 29, 2015

16.2 List of Relevant R- phrases (number and full text):

Not applicable

16.3 Legal Disclaimer

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