

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

1.1 Product Identifier:

Trade Name Kera Tein Z 1000 SD
INCI Name Hydrolyzed Keratin

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: +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 Revision Date: April 26, 2021

SDS Date of Preparation: July 17, 2020

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture:

GHS Label Elements:



Signal word: **Warning**

Hazard Statements:

H302 Harmful if swallowed
H316 Causes mild skin irritation
H319 Causes serious eye irritation
H333 May be harmful if inhaled

Precautionary Statements:

P264: Wash hands thoroughly after handling
 P270: Do not eat, drink or smoke when using this product
 P280: Wear protective gloves/protective clothing/eye protection/face protection
 P301+P312: IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell.
 P332+P313: IF SKIN IRRITATION OCCURS: get medical advise/attention
 P302+P352: IF ON SKIN: wash with plenty of water
 P304+P312: IN INHALED: 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.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
 Other hazards which do not result in classification: Not known

2.1.2 Classification according to Regulation (EC) No 1272/2008 [CLP]:

Acute Toxicity – Category 3, 4, 5
 Eye Irritation – Category 2A
 For full text of H- and P- phrases: see SECTION 16

2.1.3 Classification according to Directive 1999/45/EC [DPD]:

Harmful; Xn; R22
 Irritant; Xi; R36
 For full text of R- and S- phrases: see SECTION 16

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	%
Hydrolyzed Keratin	69430-36-0	274-001-1	Not classified as dangerous	Not classified as hazardous	89.0% Minimum
Water	7732-18-5	231-791-2	Not classified as dangerous	Not classified as hazardous	8.0% Maximum
Sodium Benzoate	532-32-1	208-534-8	Harmful; Xn; R22; S(2) Irritant; Xi; R36;S26	Acute Tox. 3,4,5; H302, H316, H333 Eye Irrit. 2; H319	1.0 – 3.0%

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: 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: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

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.

SECTION 5: FIRE FIGHTING MEASURES

5.1 Extinguishing Media:

Use water spray, carbon dioxide, dry chemical or universal-type foams applied by manufacturer's instructions.

5.2 Special Hazards Arising from the Substance or Mixture:

Unusual Fire and Explosion Hazards: May form combustible dust.

Hazardous Decomposition Products: Burning can produce smoke, carbon monoxide, carbon dioxide, ammonia.

5.3 Special Protective Action for Fire-Fighters:

Special Fire Fighting Procedures: Exercise caution when fighting any chemical fire. Use NOISH approved self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Ensure adequate ventilation. Use chemical safety goggles for eye/face protection.

6.2 Environmental Precautions:

Non-hazardous but avoid direct releases to the environment. May form combustible dust.

6.3 Methods and Material for Containment and Cleaning Up:

Pick up with absorbent material and collect 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:

Avoid bacterial contamination. Keep working place well ventilated; no special precautions are needed under normal use conditions

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. May form combustible dust. Storage Class (TRGS 510): Non-combustible solids

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

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:
Hydrolyzed Keratin	No limits established	Not Available	Not Available
Water	No limits established	Not Available	Not Available

For Sodium Benzoate

Occupational Exposure Limits	EU OELV	EU IOELV	ACGIH – TWA/Celling	
	No limits established	No limits established	No limits established	
Derived No Effect Levels (DNELs) - Workers	Inhalation – Acute (local)	Inhalation – Acute (systemic)	Inhalation – Long Term (Local)	Inhalation – Long Term (Systemic)
	No limits established	No limits established	0.1 mg/m ³	3 mg/m ³
Predicted No Effect Concentration (PNECs)	Freshwater	Marine Water	Intermittent Releases	Soil
	0.013 mg/L	0.013 mg/L	305 ug/L	0.276 mg/kg soil

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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: Chemical goggles with side splash protection recommended

Hand Protection: Protective gloves

Body Protection: None required under normal conditions of use

Respiratory Protection: None required under normal conditions of use

Thermal Hazards: None required under normal conditions of use

Other: An eye wash facility should be available in the work area. Employees must practice good personal hygiene, washing exposed areas of the skin several times daily. Launder contaminated clothing before re-use.

8.2.3 Environmental Exposure Controls: Non-hazardous but avoid direct releases to the environment .

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic Physical and Chemical Properties:

Appearance: Pale cream, free-flowing powder	Vapor Pressure: Not determined
Odor: Characteristic	Vapor Density: Not determined
Odor Threshold: No data available	Specific Gravity: Not determined
pH: 4.0 – 5.5 in aqueous 10% solution	Water Solubility: Complete
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): Not flammable	Decomposition Temperature: Not Available
Evaporation Rate: Not Applicable	Viscosity (cP): Not determined
Flammability (solid, gas): Not Applicable	Explosion Properties: None
Upper/lower flammability or explosive limits: Not Applicable	Oxidizing Properties: None

9.2 Other Information:

None

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

Not reactive under normal conditions of use

10.2 Chemical Stability:

No known hazardous reactions

10.3 Possibility of Hazardous Reactions:

None known

10.4 Conditions to Avoid:

Gross bacterial contamination

10.5 Incompatible Materials:

Concentrated nitric or sulfuric acid, strong oxidizing 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:

Acute toxicity: Oral LD50 is anticipated to be >5g/kg based on testing of similar materials.

Irritation: HRIPT results for Kera Tein 1000 liquid – minimally irritating at 100% concentration.

Corrosivity: This is not a corrosive product.

Sensitization: No data available.

Repeated dose toxicity: No data available.

Carcinogenicity: No data available.

Mutagenicity: Not expected to be mutagenic.

Toxicity for reproduction: Not expected to affect reproduction or development.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity: No ecotoxicity data available

Acute (short-term) toxicity: N/A

Fish: N/A

Crustacea: N/A

Algae/aquatic plants: N/A

Other organisms: N/A

Chronic (long-term) toxicity: N/A

Fish: N/A

12.2 Persistence and Degradability:

Data not available.

12.3 Bio accumulative Potential:

Not expected to be bio-accumulative in aquatic organisms

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:

None known

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Dispose in accordance with local and federal environmental regulations

SECTION 14: TRANSPORT INFORMATION

	US DOT	EU land transport (ADR/RID/ADN)	Sea Transport (IMDG)	Air Transport (ICAO/IATA)
14.1 UN Number	Not applicable	Not applicable	Not applicable	Not applicable
14.2 UN Proper Shipping Name	Not regulated	Not regulated	Not regulated	Not regulated
14.3 Transport Hazard Class(s)	Not applicable	Not applicable	Not applicable	Not applicable
14.4 Packing Group	Not applicable	Not applicable	Not applicable	Not applicable
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
US TSCA	Listed
Korea KECI:	Listed
China IECSC:	Listed
Japan ENCS:	Listed
Philippine PICCS:	Listed
Australia AICS:	Listed
New Zealand NZIoC	Listed

Germany: Water Class Hazard (Wassergefährdungsklasse): WGK 1

15.2 Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

SECTION 16: OTHER INFORMATION

16.1 Indication of Changes

SDS Generated: July 17, 2020

Version 2 created on January 15, 2021; Updated Section 3

Version 3 created on March 11, 2021; Updated Section 2, Section 3, Section 4, and Section 8

Version 4 created on April 26, 2021; Updated Section 2.1, 2.1.1, and 3

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

Not Applicable

16.3 Legal Disclaimer

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