

Safety Data Sheet

Kaiserling III Solution

Section 1 - Chemical Product and Company Identification

SDS Name: Kaiserling III Solution

Catalog Numbers: SO-684

Company Identification: Transene Company, Inc., DBA ROWLEY BIOCHEMICAL, Inc.
10 ELECTRONICS AVENUE
DANVERS, MA 01923

For information, call: 978-739-4883

Emergency Number: 800-424-9300

For CHEMTREC assistance, call: 800-424-9300

Section 2 - Hazards Identification

GHS Classifications

Based on available data, the GHS classification criteria are not met.

12.7% of the mixture consists of ingredients of unknown acute inhalation toxicity.

Pictograms or Hazard symbols and Hazard statement(s):

No GHS Hazard Symbols.

Hazard Statements:

No GHS Hazard Statements.

Precautionary Statements:

No GHS Precautionary Statements.

Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent
127-08-2	Potassium Acetate	12.6 w/v
89-83-8	Thymol	0.13 w/v
56-81-5	Glycerin	20.0 v/v
7732-18-5	Water	Balance

Section 4 – First Aid Measures

Eye Exposure: In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Seek medical attention.

Dermal Exposure: In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Seek medical attention if symptoms occur.

Oral Exposure: If swallowed, seek immediate medical advice. Rinse mouth with water. Do not induce vomiting.

Inhalation Exposure: If inhaled, remove to fresh air. If breathing becomes difficult, get medical attention immediately.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating gases may be generated by thermal decomposition or combustion.

Extinguishing Media: Use dry chemical, carbon dioxide, dry sand, water spray, or alcohol-resistant foam.

Hazardous Combustion Products: Carbon oxides, potassium oxides, irritating and toxic fumes and gases.

Flash Point: Not available

Autoignition Temperature: Not available

Explosion Limits, Lower: Not available

Upper: Not available

NFPA Rating: (estimated) Health: 1; Flammability: 0; Instability: 0

Section 6 - Accidental Release Measures

Procedure(s) of Personal Precaution(s):

Wear personal protective equipment. Do not ingest or inhale. Do not get on skin or clothing. Do not get in eyes. Ensure adequate ventilation.

Methods for Cleaning up: Absorb with sand, earth, or vermiculite. Carefully sweep up and containerize for proper disposal. Do not release to the environment. Do not release to drains.

Section 7 - Handling and Storage

Use care when handling. Wear personal protective equipment. Wash thoroughly after handling. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Store in a tightly closed container in a cool, dry, and well-ventilated area. Protect from direct sunlight. Do not freeze. Keep away from incompatible materials.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

Exposure Limits:

Chemical Name	ACGIH - TLV	NIOSH - IDLH	OSHA - Final PELs
Potassium Acetate CAS#127-08-2	Not listed	Not listed	Not listed
Thymol CAS#89-83-8	Not listed	Not listed	Not listed
Glycerin CAS#56-81-5	Not listed	Not listed	5 mg/m ³ TWA 15 mg/m ³ TWA

OSHA Vacated PELs: Glycerin 5 mg/m³ TWA; 10 mg/m³ TWA

Section 9 - Physical and Chemical Properties

Physical State: Liquid

Appearance: Clear (it is normal for some undissolved thymol to be present)

Odor: Characteristic

Vapor Pressure: Not available

Odor Threshold: Not available

Vapor Density: Not available

pH: Approx. 8.4

Relative Density: Not available

Melting point/freezing point: Not available
Solubility: Soluble in water
Boiling Point: Not available
Flash Point: Not available
Evaporation Rate: Not available
Flammability (solid, gas): Not available
Partition coefficient: n-octanol/water: Not available
Autoignition Temperature: Not available
Decomposition Temperature: Not available
Viscosity: Not available
Specific Gravity/Density: Not available

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.
Conditions to Avoid: Direct sunlight. Extremely high or low temperatures. Incompatible materials, ignition sources, and excess heat.
Incompatibilities with Other Materials: Strong oxidizing agents, strong bases, and strong acids.
Hazardous Decomposition Products: Carbon oxides, potassium oxides, irritating and toxic fumes and gases.

Section 11 - Toxicological Information

CAS#127-08-2 Potassium Acetate: RTECS#: AJ3325000

LD50 Oral: 3250 mg/kg (rat)
LD50 Dermal: >20000 mg/kg (rabbit)
LC50 Inhalation: Not available

Carcinogenicity: Potassium Acetate CAS#127-0-2 is not listed by IARC, NTP, ACGIH, OSHA, or California Prop. 65.

CAS#89-83-8 Thymol: RTECS#: XP2275000

LD50 Oral: 980 mg/kg (rat)
LD50 Dermal: >2000 mg/kg (rat)
LC50 Inhalation: Not available

Carcinogenicity: Thymol CAS#89-83-8 is not listed by IARC, NTP, ACGIH, OSHA, or California Prop. 65.

CAS#56-81-5 Glycerin: RTECS#: MA8050000

LD50 Oral: 12600 mg/kg (rat)
LD50 Dermal: >10 g/kg (rabbit)
LC50 Inhalation: >2.75 mg/L 4h mist (rat)

Carcinogenicity: Glycerin CAS#56-81-5 is not listed by IARC, NTP, ACGIH, OSHA, or California Prop. 65.

Information on the likely routes of exposure: Routes of entry anticipated: oral, dermal, inhalation, and eye.

Epidemiology: Not available.

Teratogenicity: Not available.

Reproductive Effects: Not available.

Developmental Effects: Not available.

Neurotoxicity: Not available.

Mutagenicity: Not available.

Specific Target Organ Toxicity, Single Exposure: Not available.

Specific Target Organ Toxicity, Repeated Exposure: Not available.

Symptoms associated with exposure: Overexposure may cause kidney irregularities. Ingestion may cause nausea, vomiting, diarrhea, swelling, damage to the tissue, and danger of perforation.

The toxicological properties of this material have not been thoroughly investigated.

Section 12 - Ecological Information

Ecotoxicity: Do not release to the environment. Do not release to drains. Thymol is toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment.

CAS#127-08-2 Potassium Acetate:

LC50, freshwater fish: 6800 mg/L 96h semi-static (oncorhynchus mykiss)(rainbow trout)

LC50, freshwater fish: >992 mg/L 96h (danio rerio)(zebra fish)

EC50, water flea: >919 mg/L 48h (daphnia magna)

CAS#89-83-8 Thymol:

LC50, freshwater fish: 3.2-4.2 mg/L 96h (pimephales promelas)(fathead minnow)

EC50, water flea: 1.7-3.2 mg/L 96h

ErC50, algae: 14 mg/L 72h (pseudokirchneriella subcapitata)(green algae)

CAS#56-81-5 Glycerin:

LC50, freshwater fish: 54000 mg/L 96h static (oncorhynchus mykiss)(rainbow trout)

Persistence and degradability: Persistence is unlikely based on information available.

Bio-accumulative potential: Not available.

Mobility: Will likely be mobile in the environment due to its water solubility.

Section 13 - Disposal Considerations

DISPOSAL: Dispose of in accordance with all federal, state, and local regulations.

Section 14 – Transport Information

DOT
Non-Regulated

Section 15 - Regulatory Information

Canada Regulatory Information

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the SDS contains all the information required by the CPR.

Section 16 - Additional Information

SDS Creation Date: 1-28-20

Revision #1: 6-14-23

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