

MATERIAL SAFETY DATA SHEET

ERA A Waters Company

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER: ERA (Environmental Resource Associates) BUSINESS PHONE: 303-431-8454
ADDRESS: 6000 W. 54th Avenue FAX: 303-421-0159 EMAIL: Info@eraqc.com
Arvada, CO, 80002 U.S.A. CHEMICAL EMERGENCY PHONE: 352-535-5053 (INFOTRAC)


Product Name(s): **Gelatine Reagent**
Catalog / Part Number(s): **4425064**
MSDS Creation Date: November 16, 1998 (APG)
Revision Date: April 5, 2011

MSDS Reference Number: 4425064

SECTION 2: HAZARDS IDENTIFICATION

Mixture may be harmful if swallowed, may cause skin burns and eye damage according to Directive 199/45/EC or 67/548/EEC. Thymol is toxic to aquatic life with long lasting effects. Use only as directed and in accordance with good lab practices.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL INGREDIENT NAME				EXPOSURE LIMITS		EU LABEL
	CAS NUMBER	EC NUMBER	% BY WT.	OSHA	ACGIH	HAZARD LABEL
Gelatin	9000-70-8	232-554-6	≤96.78%	NA	NA	NA
Thymol	89-83-8	201-944-8	≤1.61%	NA	NA	
Thymol Blue	76-61-9	200-973-3	≤1.61%	NA	NA	NA

Notes: This standard is a mixture of biochemicals (gelatin) and indicator dyes/salts which are packaged in 3 gram containers. Considered Non-Hazardous under OSHA 1910.1200 (HazCom) as product contains no known or potential carcinogens in excess of 0.1% of the composition nor any other hazardous chemical in excess of 1% of the composition.

Material Use: Analytical reagent or certified reference material used in laboratories. Uses also include research and development.

SECTION 4: FIRST-AID MEASURES

Inhalation: Remove to fresh air. Skin Contact: Flush with water.
Eye Contact: Immediately flush with water for a minimum of 15 minutes. Ingestion: Get medical attention if large amounts ingested.
After following first aid measures, seek medical attention.

SECTION 5: FIRE-FIGHTING MEASURES

Flammable Properties: Not flammable. Extinguishing Media: Dry chemical, carbon dioxide or appropriate foam.
Unique Aspects Contributing To a Fire: Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Minimum explosible concentration: <0.5 g/L (air) Maximum explosion pressure: 78 lb/sq inch.
Special Fire Fighting Procedures: None.

Note: As in any fire, wear self-contained breathing apparatus, and full protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Remove all sources of ignition, ventilate area, wear appropriate personal protective equipment. Do not disperse dust into the air. Reduce dust and prevent scattering by moistening with water. Place wastes into closed containers for proper disposal.

SECTION 7: HANDLING AND STORAGE

Handle in accordance with good laboratory practices. Store in a dry well-ventilated place. This product is intended for use only by people trained in the safety and handling of chemicals and laboratory preparations.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Handle in accordance with good laboratory practices. Wash thoroughly after handling.
Respiratory Protection: Not normally needed. If exposure limits are exceeded, use approved respirator.
Eye Protection: Safety glasses with side shields or safety goggles
Skin Protection: Neoprene or other chemical resistant gloves.
Engineering Controls: Not normally needed. If exposure limits are exceeded, work in a fume hood.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

DATA FOR THYMOL CAS 89-83-8

Appearance:	off white/tan powder	Specific Gravity:	NA	Melting Point:	48-51°C
Physical State:	Liquid	Flash Point:	110°C (230°F) CC	Vapor Pressure:	1 mmHg at 64°C
Odor:	NA	Explosion Limits:	NA	Vapor Density (air=1):	NA
pH:	7 at 1 g/L	Boiling Point:	232°C (450°F)	Solubility in Water:	NA

SECTION 10: STABILITY AND REACTIVITY

Hazardous Polymerization Will Not Occur ☒ May Occur ☐ Stability: Stable ☒ Unstable ☐
Hazardous Decomposition/Combustion Products: Carbon monoxide, carbon dioxide.
Conditions and Materials to Avoid: Tannin, Formaldehyde.

SECTION 11: TOXICOLOGICAL INFORMATION

Primary Route(s) of Exposure Under Normal Use: Inhalation, Ingestion, Skin Contact, Eye Contact. Large doses may cause gastro-intestinal upset or burning. Signs of exposure: cough, shortness of breath, headache, nausea, vomiting.

Target Organ(s): NA

Acute Effects: Irritation of eyes, skin, respiratory and digestive tracts.

Thymol: Oral, rat: LD50 = 980 mg/kg; Behavioral: Somnolence (general depressed activity); Ataxia; Coma.

Chronic Effects: Thymol: Genotoxicity in vitro – hamster – embryo – unscheduled DNA synthesis; morphological transformation; sister chromatid exchange. Reproductive toxicity – rat – subcutaneous – maternal effects: uterus, cervix, vagina.

Other Information: Chemical Ingredient(s) not classified as carcinogen(s) by OSHA, IARC, NTP, ACGIH, or California. All ingredients are Right to Know Components in Pennsylvania and New Jersey.

SECTION 12: ECOLOGICAL INFORMATION

No information available on this preparation or mixture. By complying with sections 6 & 7 there will be no release into the environment.
Thymol: Ecotoxicity to fish (LC50): 3.2 – 4.2 mg/L 96 hours [Fish (Fathead minnow)]. Toxicity to daphnia (EC50): 1.7 – 3.2 mg/L/96H (water flea).

SECTION 13: DISPOSAL CONSIDERATIONS

To determine proper disposal, consult applicable federal, state and local environmental control regulations.

SECTION 14: TRANSPORT INFORMATION

Shipment Name/Type: Non-hazardous for transport.

UN Number: NA Shipping/Hazardous Class: NA Packing Group: NA

Shipping regulations are based on combinations of criteria such as quantity, class and packaging according to DOT, IATA and (49) CFR.

SECTION 15: REGULATORY INFORMATION

EU Symbol of Danger: NA for Mixture. Thymol GHS05 Serious eye damage; GHS07 skin & eye irritant; GHS09 Hazard to aquatic environment.
EU Risk Phrases: NA for Mixture. Thymol: H302 Harmful if swallowed; H314 Causes severe skin burns and eye damage; H411 Toxic to aquatic life with long lasting effects.

U.S. TSCA: Listed

Canada: This product has been classified according to the hazard criteria of the CPR and this MSDS contains all the information required by the CPR.

SECTION 16: OTHER INFORMATION

United States EPA Regulatory Information:	NFPA Rating:	Health: 3	Flammability: 1	Reactivity: 0
SARA 313: NA				
CERCLA RQ: NA	HMIS Rating:	Health: 3	Flammability: 1	Physical Hazard: 0

NOTE: NA = Data not available, not established, determined or not pertinent.

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