

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Critoseal
Use/Size Microhematocrit Tube Seal
Product Numbers 8889-215003
Manufacturer/Supplier Tyco Healthcare/ Kendall
Address 15 Hampshire Street
 Mansfield, MA 02048
Phone Number (508) 261-8000 (Monday – Friday 8:00 am to 5:00 pm)
Chemtrec Number (800) 424-9300
Revision Date: January 30, 2004
MSDS Date: September 22, 1998

This MSDS has been compiled in accordance with - EC Directive 91/155/EC - OSHA's Hazcom Standard (29 CFR 1910.1200)

2. COMPOSITION/INFORMATION ON THE COMPONENTS

Component Name	CAS#/Codes	Concentration	R Phrases	Classification
Polyvinyl Chloride	9002-86-2 No EC #	44.30%	R-None	None
Bis-(2-ethylhexyl)terephthalate	6422-86-2 229-176-9	33.80%	R-None	None
Proprietary Ingredients	Proprietary	21.90%	R-None	None

3. HAZARD IDENTIFICATION

EU Main Hazards

Not classified as hazardous.

Routes of Entry

- Eye contact - Skin contact

Carcinogenic Status

Not considered carcinogenic by NTP, IARC, and OSHA.

Target Organs

- Eye - Skin

Health Effects - Eyes

Contact may cause slight transient irritation.

Health Effects - Skin

Material may cause irritation.

Health Effects - Ingestion

A large dose may have the following effects:

- abdominal pain - nausea - vomiting - diarrhea - irritation of mouth, throat and digestive tract

Health Effects - Inhalation

No adverse effects are expected during normal conditions of use.

4. FIRST AID MEASURES

Eyes

Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.

Skin

Wash skin thoroughly with soap and water. Remove contaminated clothing and continue washing. Seek medical attention if symptoms persist.

Ingestion

Do not induce vomiting. Have victim drink 1-3 glasses of water to dilute stomach contents. Never administer anything by mouth if a victim is losing consciousness, is unconscious or is convulsing. Obtain medical attention immediately.

Inhalation

If there is difficulty in breathing, give oxygen. Seek medical attention if symptoms persist.

Advice to Physicians

Treat symptomatically.

5. FIRE FIGHTING MEASURES

Extinguishing Media

Not combustible. Select extinguishing agent appropriate to other materials involved.

Unusual Fire and Explosion Hazards

This product may give rise to hazardous fumes in a fire.

Protective Equipment for Fire-Fighting

Wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

This product in final form is a putty and is not expected to present a spill or release hazard. Transfer into suitable containers for recovery or disposal. Wear appropriate protective clothing.

7. HANDLING AND STORAGE

Avoid contact with eyes, skin and clothing. Keep container tightly closed when not in use. Storage area should be: - cool - dry - well ventilated - away from incompatible materials

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Standards

Exposure limits are listed below, if they exist.

Polyvinyl Chloride

None assigned.

Bis-(2-ethylhexyl)terephthalate

None assigned.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Proprietary Ingredients

None assigned.

Engineering Control Measures

Good general room ventilation is expected to be adequate to control airborne levels.

Respiratory Protection

Respiratory protection not normally required.

Hand Protection

Chemical resistant gloves

Eye Protection

Chemical goggles or safety glasses with side shields

Body Protection

Normal work wear.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Semi-solid
Color	White
Odor	Odorless
pH	No data.
Boiling Range/Point (°C/F)	No data.
Flash Point (PMCC) (°C/F)	No data.
Explosion Limits (%)	No data.
Vapor Pressure	No data.
Density	No data.
Solubility in Water	Insoluble
Vapor Density (Air = 1)	No data.
Viscosity (cSt)	No data.

10. STABILITY AND REACTIVITY

Stability

Stable under normal conditions.

Conditions to Avoid

- Heat - High temperatures

Materials to Avoid

None known.

Hazardous Polymerization

Will not occur.

Hazardous Decomposition Products

- oxides of carbon - irritating fumes - hydrogen chloride

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Critoseal Tube Sealant was extracted at 0.2 g/ml, in cell culture medium (with Earles salt and 10% fetal bovine serum) and tested according to USP XXIII,(87) Biological Reactivity, In Vitro, Elution Test per General Control Procedure - Toxicology, revision 6:GCP T-21. No significant in vitro biological reactivity was detected and is not cytotoxic. This product is acceptable for direct contact with tissue or blood in a clinical application.

Chronic Toxicity/Carcinogenicity

This product is not expected to cause long term adverse health effects.

Genotoxicity

This product is not expected to cause any mutagenic effects.

Reproductive/Developmental Toxicity

This product is not expected to cause reproductive or developmental health effects.

12. ECOLOGICAL INFORMATION

Mobility

(Bis-(2-ethylhexyl)terephthalate)

Bis(2-ethylhexyl) terephthalate is expected to be essentially immobile in soil given an estimated Koc of 870,000.

Persistence/Degradability

(Bis-(2-ethylhexyl)terephthalate)

Biodegradation in soil is expected to be a major fate process for bis(2-ethylhexyl) terephthalate based on results for a similar compound, bis(2-ethylhexyl) phthalate; this compound undergoes aerobic and possibly anaerobic biodegradation.

Bio-accumulation

(Bis-(2-ethylhexyl)terephthalate)

Based on an estimated BCF value of 1,400,000, bis(2-ethylhexyl) terephthalate should bioconcentrate in aquatic organism. However, a structurally similar compound, bis(2-ethylhexyl) phthalate, had a measured BCF value of 637 with a depuration half-life of 38 days in sheepshead minnows therefore, may be readily metabolized by some organisms.

Ecotoxicity

No relevant studies identified.

13. DISPOSAL

Dispose of in accordance with all applicable local and national regulations.

14. TRANSPORT INFORMATION

DOT CFR 172.101 Data	Not Regulated
UN Proper Shipping Name	Not Regulated
UN Class	None.
UN Number	None.
UN Packaging Group	None.

14. TRANSPORT INFORMATION

**Classification for AIR
Transportation (IATA)**

Consult current IATA Regulations prior to shipping by air.

15. REGULATORY INFORMATION

EU Label Information

Classification and labelling have been performed according to EU directives 67/548/EEC and 99/45/EC including amendments.

EU Hazard Symbol and Indication of Danger

According to EC Commission Directive 67/548/EEC this product is not classified.

R phrases

None

S phrases

None

US REGULATIONS (Federal, State) and INTERNATIONAL CHEMICAL REGISTRATION LAWS

TSCA Listing

This product contains ingredients that are listed on or exempt from listing on the EPA Toxic Substance Control Act Chemical Inventory.

EINECS Listing

All ingredients in this product are listed on the European Inventory of Existing Commercial Chemical Substances (EINECS) or are exempt from listing.

DSL/NDSL (Canadian) Listing

Compliance with the Domestic Substance List (DSL) or the Non-Domestic Substance List (NDSL) has not been determined for all of the ingredients in this product.

MA Right To Know Law

This product does not contain any chemicals listed on the Massachusetts Right To Know Substance List.

PA Right To Know Law

This product does not contain any chemicals on the Pennsylvania Hazardous Substance List.

NJ Right To Know Law

This product does not contain any chemicals on the New Jersey Workplace Hazardous Substance List. – polyvinyl chloride

California Proposition 65

This product does not contain materials which the State of California has found to cause cancer, birth defects or other reproductive harm.

SARA Title III Sect. 302 (EHS)

This product does not contain any chemicals subject to SARA Title III Section 302.

SARA Title III Sect. 304

This product does not contain any chemicals subject to SARA Title III Section 304.

SARA Title III Sect. 311/312 Categorization

This product does not meet any of the SARA Title III Section 311/312 categorizations.

SARA Title III Sect. 313

This product does not contain a chemical which is listed in Section 313 at or above de minimis concentrations.

16. OTHER INFORMATION

NFPA Ratings

NFPA Code for Flammability - 0
NFPA Code for Health - 1
NFPA Code for Reactivity - 0
NFPA Code for Special Hazards - 0

HMIS Ratings

HMIS Code for Flammability - 0
HMIS Code for Health - 1
HMIS Code for Reactivity - 0
HMIS Code for Personal Protection - See Section 8

Abbreviations

N/A: Denotes no applicable information found or available
CAS#: Chemical Abstracts Service Number
ACGIH: American Conference of Governmental Industrial Hygienists
OSHA: Occupational Safety and Health Administration
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
STEL: Short Term Exposure Limit
NTP: National Toxicology Program
IARC: International Agency for Research on Cancer
R: Risk
S: Safety
EU: European Union
LC50: Lethal Concentration 50%
LD50: Lethal Dose 50%
BOD: Biological Oxygen Demand
KoC: Soil Organic Carbon Partition Coefficient

Prepared By: EnviroNet LLC.

The information and recommendations presented in this MSDS are based on sources believed to be accurate; therefore, The Kendall Company assumes no liability for the accuracy or completeness of this information. It is the user's responsibility to determine the suitability of the information for their particular purposes.
