

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** Thermazene Cream  
**Use/Size** Burn Cream / 50-1000 gm  
**Product Numbers** 8884-473000, 8884-473400, 8884-473800, 8884-472609, 8884-473888  
**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
Water	7732-18-5 231-791-2	> 75.00%	R-None	None
Stearyl Alcohol	112-92-5 204-017-6	15.00 -25.00%	R-None	None
Petroleum Jelly	8009-03-8 232-373-2	10.00 -20.00%	R-None	None
Polyethylene glycol monostearate	9004-99-3 No EC #	5.00 -10.00%	R-None	None
Propylene Glycol	57-55-6 200-338-0	5.00 -10.00%	R-None	None
Isopropyl Myristate	110-27-0 203-751-4	5.00 -10.00%	R-None	None
Silver Sulfadiazine	22199-08-2 244-834-5	1.00 -3.00%	R-None	None

## 3. HAZARD IDENTIFICATION

**EU Main Hazards**

Not classified as hazardous.

**Routes of Entry**

- Eye contact - Ingestion - Skin contact

**Carcinogenic Status**

Not considered carcinogenic by NTP, IARC, and OSHA.

**Target Organs**

- Eye - Skin - Kidney - Central Nervous System

**Health Effects - Eyes**

Contact may cause conjunctival irritation and transient corneal damage.

**Health Effects - Skin**

This product is non-irritating to the skin and skin absorption is not associated with any health effects. Repeated or prolonged contact may produce defatting of the skin leading to irritation and dermatitis.

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### 3. HAZARD IDENTIFICATION

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**Health Effects - Ingestion**

A large dose may have the following effects: nausea - vomiting - diarrhea - gastrointestinal irritation - kidney damage - central nervous system depression

**Health Effects - Inhalation**

No adverse effects are expected during normal conditions of use.

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### 4. FIRST AID MEASURES

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**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. Obtain medical attention if blistering occurs or redness persists.

**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.

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### 5. FIRE FIGHTING MEASURES

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**Extinguishing Media**

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

**Unusual Fire and Explosion Hazards**

None known.

**Protective Equipment for Fire-Fighting**

Wear full protective clothing and self-contained breathing apparatus.

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### 6. ACCIDENTAL RELEASE MEASURES

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This product may be collected by carefully scooping into a pan, paper towel or other absorbent material. Transfer into suitable containers for recovery or disposal. No specific measures necessary.

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### 7. HANDLING AND STORAGE

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Keep container tightly closed when not in use. Storage area should be: - cool - dry - well ventilated - away from incompatible materials

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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**Occupational Exposure Standards**

Exposure limits are listed below, if they exist.

**Stearyl Alcohol**

None assigned.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**Petroleum Jelly**

None assigned.

**Polyethylene glycol monostearate**(as Stearates) ACGIH: TLV 10mg/m<sup>3</sup> 8h TWA.

A4 - not classifiable as a human carcinogen.

**Propylene Glycol**

None assigned.

**Isopropyl Myristate**

None assigned.

**Silver Sulfadiazine**(as silver, metal) ACGIH: TLV 0.1mg/m<sup>3</sup> 8h TWA.UK EH40: OES 0.1mg/m<sup>3</sup> 8h TWA.(as Silver, Soluble) ACGIH: TLV 0.01mg/m<sup>3</sup> 8h TWA.**Engineering Control Measures**

No specific measures necessary. Good general room ventilation is expected to be adequate to control airborne levels.

**Respiratory Protection**

Respiratory protection not normally required.

**Hand Protection**

Skin protection not normally required.

**Eye Protection**

Eye protection not normally required. However, care should be taken to avoid accidental exposure.

**Body Protection**

Normal work wear.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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<b>Physical State</b>	Cream
<b>Color</b>	White
<b>Odor</b>	Fragrant
<b>pH</b>	No data.
<b>Specific Gravity</b>	No data.
<b>Boiling Range/Point (°C/F)</b>	No data.
<b>Melting Point (°C/F)</b>	No data.
<b>Flash Point (PMCC) (°C/F)</b>	No data.
<b>Explosion Limits (%)</b>	No data.
<b>Vapor Pressure</b>	No data.
<b>Density</b>	No data.
<b>Solubility in Water</b>	Insoluble
<b>Vapor Density (Air = 1)</b>	No data.
<b>Viscosity (cSt)</b>	No data.

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## 10. STABILITY AND REACTIVITY

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### **Stability**

Stable under normal conditions.

### **Conditions to Avoid**

- Heat - High temperatures

### **Materials to Avoid**

- Strong oxidizing agents

### **Hazardous Polymerization**

Will not occur.

### **Hazardous Decomposition Products**

- acrid smoke and irritating fumes - oxides of carbon - silver oxide - oxides of sulfur

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## 11. TOXICOLOGICAL INFORMATION

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### **Acute Toxicity**

All components have a low order of acute toxicity. All components have oral LD50s (rat) greater than 10000mg/kg. In dermal toxicity studies, this product was not found to be a primary skin irritant when applied to rabbit skin for 24 or 48 hours.

Propylene Glycol: Oral LD50 (rat) 30 g/kg.

Isopropyl Myristate: Dermal LD50 (rabbit) 5 g/kg.

### **Chronic Toxicity/Carcinogenicity**

Stearyl Alcohol: When implanted in mice (1000 mg/kg) caused an increased incidence of tumors in the kidney, ureter and bladder.

### **Genotoxicity**

Propylene Glycol: DNA inhibition (mouse-subcutaneous); cytogenetic analysis (mouse-subcutaneous; hamster-fibroblast).

Silver Sulfadiazine: DNA damage, unscheduled DNA synthesis and DNA inhibition (microorganisms).

### **Reproductive/Developmental Toxicity**

Propylene Glycol: Intraperitoneal injections (100 mg/kg) to mice during pregnancy resulted in an increase in post-implantation mortality and fetotoxicity.

Silver Sulfadiazine: Subcutaneous administration to rats prior to pregnancy (11 gm/kg) resulted in an increase in pre- and post-implantation mortality and decreased litter size. When given subcutaneously to rats (11 gm/kg) and rabbits (26-65 gm/kg) during pregnancy, caused developmental abnormalities of the musculoskeletal system and decreased viability of newborns.

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## 12. ECOLOGICAL INFORMATION

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### **Mobility**

(Isopropyl Myristate)

If released to soil, isopropyl myristate is expected to have no mobility based upon an estimated Koc of 15,000.

(Stearyl Alcohol)

If released to soil, 1-octadecanol is not expected to be mobile due to strong soil adsorption.

### **Persistence/Degradability**

(Isopropyl Myristate)

Isopropyl myristate is expected to rapidly biodegrade in aerobic soils as suggested by the rapid biodegradation of structurally similar long-chain fatty acid esters. If released into water, isopropyl myristate is expected to adsorb to suspended solids and sediment in the water column based upon

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## 10. STABILITY AND REACTIVITY

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the estimated Koc. Isopropyl myristate is expected to rapidly biodegrade in aerobic waters as suggested by the rapid biodegradation of structurally similar long-chain fatty acid esters.

(Propylene Glycol)

Photodegrades rapidly if released to the atmosphere. Will biodegrade rapidly if released to water or soil. Leaching in the soil will occur (Log Kow = -0.92), however, biodegradation is rapid enough to diminish the importance of leaching. Volatilization, adsorption to sediment and bioconcentration (BCF<1) are not expected to be significant.

**Bio-accumulation**

(Isopropyl Myristate)

An estimated BCF of 1200 suggests the potential for bioconcentration in aquatic organisms is very high.

(Stearyl Alcohol)

An estimated BCF value of 28,800 suggests that 1-octadecanol will bioconcentrate in aquatic organisms.

**Ecotoxicity**

(Propylene Glycol)

Tests on the following species gave a 96h LC50 of 10000mg/litre: - guppies

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## 13. DISPOSAL

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

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## 14. TRANSPORT INFORMATION

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<b>DOT CFR 172.101 Data</b>	Not Regulated
<b>UN Proper Shipping Name</b>	Not Regulated
<b>UN Class</b>	None.
<b>UN Number</b>	None.
<b>UN Packaging Group</b>	None.
<b>Classification for AIR Transportation (IATA)</b>	Consult current IATA Regulations prior to shipping by air.

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## 15. REGULATORY INFORMATION

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**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.

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## 15. REGULATORY INFORMATION

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<b>US REGULATIONS (Federal, State) and INTERNATIONAL CHEMICAL REGISTRATION LAWS</b>
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**TSCA Listing**

This product contains an ingredient(s) that is exempt from listing on the EPA Toxic Substance Control Act Chemical Inventory. - Silver Sulfadiazine (22199-08-2)

**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**

The following ingredient(s) have not been verified for inclusion on the Canadian Domestic Substance List (DSL) or the Non-Domestic Substance List (NDSL): - Silver Sulfadiazine (22199-08-2)

**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 contains the following chemicals found on the Pennsylvania Hazardous Substance List:  
- Propylene Glycol

**NJ Right To Know Law**

This product does not contain any chemicals on the New Jersey Workplace Hazardous Substance List. - Silver Sulfadiazine (as silver compound)

**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**

RQ 1000 lbs. (as silver 7440-22-4)

**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 contains a chemical that is listed in Section 313 at or above de minimis concentrations. The following listed chemicals are present: - Silver Sulfadiazine (as silver) 7440-22-4

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## 16. OTHER INFORMATION

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**NFPA Ratings**

NFPA Code for Flammability - 0

NFPA Code for Health - 0

NFPA Code for Reactivity - 0

NFPA Code for Special Hazards - 0

**HMIS Ratings**

HMIS Code for Flammability - 0

HMIS Code for Health - 0

HMIS Code for Reactivity - 0

HMIS Code for Personal Protection - See Section 8

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## 16. OTHER INFORMATION

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### 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  
EU: European Union  
R: Risk  
S: Safety  
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.

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