

Material Safety Data Sheet

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"DIMENSION" CLINICAL CHEMISTRY SYSTEM FT4 FLEX(TM) REAGENT CARTRIDGE  
RADM0010 Revised: 11/19/2003  
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CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Tradenames and Synonyms

CAT NO. RF410  
FREE THYROXINE FLEX(TM) REAGENT CARTRIDGE  
FT4 FLEX(TM) REAGENT CARTRIDGE  
"DIMENSION" FT4 FLEX(TM) REAGENT CARTRIDGE  
AMAPS 755410.901

Company Identification

MANUFACTURER/DISTRIBUTOR  
Dade Behring Inc.  
P. O. Box 6101  
Newark, DE 19714-6101

PHONE NUMBERS

Product Information : 800-441-9250  
Transport Emergency : CHEMTREC 800-424-9300  
Medical Emergency : 800-228-5635 ext 284

COMPOSITION/INFORMATION ON INGREDIENTS

Components

Material	CAS Number	%
RxL APO Tablet		
Trehalose	99-20-7	>60
Polyethylene Glycol	25322-68-3	9.2
Horse Radish Peroxidase	9003-99-0	0.21
	54970-72-8	
3,5-Dichloro-2-Hydroxybenzene Sulfonate Na Salt		4.4
4-Aminoantipyrine	83-07-8	1.3
Bicine	150-25-4	22
Streptomycin sulphate	3810-74-0	0.24

RxL FADP Tablet

Trehalose	99-20-7	42
Polyethylene Glycol	25322-68-3	7.8
Proline	344-25-2	41
Bicine	150-25-4	9.7

RxL FT4 Chrome Tablet

Trehalose	99-20-7	>90
Polyethylene Glycol	25322-68-3	8.0
CPRM 40 m2/g	12018-01-8	0.83
Streptomycin sulphate	3810-74-0	0.11

RxL FT4 Conjugate Reagent

Water	7732-18-5	>98
Sodium Azide	26628-22-8	0.095
Chloramphenicol	56-75-7	0.017

RxL Cascade Diluent

Water	7732-18-5	>96
Streptomycin sulphate	3810-74-0	0.03
Sodium Azide	26628-22-8	0.09
2-Chloroacetamide	79-07-2	0.1

RxL FT4 Chrome Diluent

Water	7732-18-5	>85
HEPES	7365-45-9	4.7
Tris HCl	1185-53-1	4.2

WARNING: These reagents contain sodium azide. Sodium azide may react with lead or copper plumbing to form highly explosive metal azides. If discarded into drain, flush with a large volume of water to prevent azide build-up.

HAZARDS IDENTIFICATION

Potential Health Effects

In normal use, there is no exposure to the chemicals contained in this product.

POLYETHYLENE GLYCOL is not expected to cause significant acute effects from modest overexposure. Higher exposures to some lower molecular weight materials may lead to abnormal liver or kidney function as detected by laboratory tests. There are no lower molecular weight materials in this product.

HORSE RADISH PEROXIDASE is a SENSITIZER. Prolonged or repeated exposure may cause allergic reactions in certain

sensitive individuals.

4-AMINO ANTIPYRINE is an IRRITANT. May cause irritation by skin or eye contact. Inhalation may be irritating to mucous membranes and upper respiratory tract.

BICINE is an IRRITANT. Harmful if ingested, inhaled or absorbed through the skin. Causes eye and skin irritation.

CHROMIUM is an IRRITANT. Skin contact may cause discomfort or rash. Eye contact may cause discomfort, tearing or blurring of vision. Chronic overexposure by inhalation to chrome dust may cause respiratory irritation with scarring and abnormal tissue structure of the lungs.

CHLORAMPHENICOL is a REPRODUCTIVE Hazard. May cause heritable genetic damage. It is listed by the International Association for Cancer Registry as a 2A--a chemical for which there is almost sufficient evidence for carcinogenicity in humans.

2-CHLOROACETAMIDE is HIGHLY TOXIC, SEVERE IRRITANT, SENSITIZER. May be fatal if inhaled or absorbed through the skin. Extremely destructive to skin and eye tissue. May cause skin allergy.

STREPTOMYCIN SULFATE is a SENSITIZER. Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals. Similar substances are known to damage kidneys and cause hearing loss. May cause birth defects to unborn child.

SODIUM AZIDE is not likely to be a human health hazard in the amount present in this product. However, lowering the pH of azide solutions below 6 may generate very irritating hydrazoic acid gas which is a skin and eye irritant and can cause headaches even in very small amounts.

#### Carcinogenicity Information

The following components are listed by IARC, NTP, OSHA or ACGIH as carcinogens.

Material	IARC	NTP	OSHA	ACGIH
Chloramphenicol	2A			

#### FIRST AID MEASURES

## First Aid

### INHALATION

Inhalation is not an expected route of exposure during normal use of the product.

### SKIN CONTACT

In case of contact, immediately wash skin with soap and water. Wash contaminated clothing before reuse.

### EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

### INGESTION

Ingestion is not an expected route of exposure during normal use of the product. If ingested, consult a physician.

## FIRE FIGHTING MEASURES

### Flammable Properties

Not classified as combustible, but will burn if ignited.

### Extinguishing Media

Use media appropriate for surrounding material.

### Fire Fighting Instructions

Evacuate personnel to a safe area. Wear full protective equipment.

## ACCIDENTAL RELEASE MEASURES

### Safeguards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

## HANDLING AND STORAGE

### Handling (Personnel)

Avoid contact with eyes, skin or clothing.

### Storage

Store refrigerated

## EXPOSURE CONTROLS/PERSONAL PROTECTION

### Personal Protective Equipment

Eye/Face : Safety glasses  
Protective Gloves : latex or nitrile

### Exposure Guidelines

#### Applicable Exposure Limits

##### Polyethylene Glycol

PEL (OSHA) : None Established  
TLV (ACGIH) : None Established  
WEEL (AIHA) : 10 mg/m<sup>3</sup>, 8 Hr. TWA

##### Chloramphenicol

PEL (OSHA) : None Established  
TLV (ACGIH) : None Established  
WEEL (AIHA) : 0.5 mg/m<sup>3</sup>, 8 Hr. TWA

## PHYSICAL AND CHEMICAL PROPERTIES

### Physical Data

Self-contained cartridge with liquid reagents in wells 5, 7 and 8; tablets in wells 1, 2, 3, 4 and 6.

## STABILITY AND REACTIVITY

### Chemical Stability

Stable at normal temperatures and storage conditions.

### Conditions to Avoid

Avoid extreme heat.

### Decomposition

Decomposition does not occur under normal use conditions.

#### Polymerization

Polymerization will not occur.

### DISPOSAL CONSIDERATIONS

#### Waste Disposal

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.

Chromium(IV) dioxide is present in this product. The Chrome Particle Reagent has been tested following Environmental Protection Agency TCLP protocol and found not to be a hazardous waste. However, when this product is used with human source sample material, disposal must follow all guidelines for infectious waste.

### REGULATORY INFORMATION

#### State Regulations (U.S.)

WARNING - SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM- Chloramphenicol, Streptomycin sulfate

### OTHER INFORMATION

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The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Technical Assistance Center  
Dade Behring Inc.  
Newark, DE 19714-6101  
1-800-441-9250

End of MSDS