

Material Safety Data Sheet

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"DIMENSION" CLINICAL CHEMISTRY SYSTEM TSH FLEX(TM) REAGENT CARTRIDGE  
RADM0009 Revised: 12/11/1998  
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CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Tradenames and Synonyms

CAT. NO. RF412  
THYROID STIMULATING HORMONE FLEX(TM) REAGENT CARTRIDGE  
TSH FLEX(TM) REAGENT CARTRIDGE  
"DIMENSION" TSH FLEX(TM) REAGENT CARTRIDGE

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	%
TSH Conjugate Reagent		
Water	7732-18-5	31.93
StabilZyme(R) AP exact identity trade secret		40.02
Horse serum		24.74
2-Chloroacetamide	79-07-2	0.1173
Streptomycin sulphate	3810-74-0	0.001
Neomycin sulphate	1405-10-3	0.008
Gentamicin sulfate	1405-41-0	0.0008
TSH Chrome Tablet		
Trehalose	99-20-7	54.2
Polyethylene Glycol	25322-68-3	8.06
Bovine Serum Albumin	9048-46-8	22.51

Sodium Chloride	7647-14-5	11.2
*CPRM, 40m2/g	12018-01-8	2.8
Streptomycin sulphate	3810-74-0	0.11

APO Tablet

Trehalose	99-20-7	47.82
Polyethylene Glycol	25322-68-3	9.06
Dichlorohydroxy Benzene Sulfonic acid	54970-72-8	6.57
4-Aminoantipyrine	83-07-8	1.57
Bicine	150-25-4	10
Streptomycin sulphate	3810-74-0	0.35

FADP Tablet

d-Proline	344-25-2	40.58
Trehalose	99-20-7	41.89
Polyethylene glycol	25322693	7.82
Bicine	150-25-4	9.67

Cascade Diluent

Water	7732-18-5	96.236
Bicine	150-25-4	3.2
2-Chloroacetamide	79-07-2	0.1
Streptomycin sulphate	3810-74-0	0.025

\* Disclosure as a toxic chemical is required under Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

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

Since this mixture has not been tested as a whole to determine the hazards by all routes of exposure, information is provided for each hazardous component of the mixture to meet requirements of OSHA's Hazard Communication Standard (29 CFR 1910.1200). The effects noted occur from exposure to the pure component unless otherwise noted.

### INFORMATION FOR COMPONENTS

CARBOWAX 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. This product contains no lower molecular weight carbowax.

SODIUM CHLORIDE is an IRRITANT. Human health effects of overexposure by inhalation, ingestion, or skin or eye contact may cause nonspecific discomfort, such as nausea, headache, or weakness upon ingestion; or eye irritation with tearing, or blurring of vision on eye contact

CPRM contains Chromium(IV) Dioxide which 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 the dust may cause respiratory irritation with scarring and abnormal tissue structure of the lungs.

4-AMINOANTIPYRINE is an IRRITANT. May cause irritation to mucous membranes and upper respiratory tract by inhalation. Skin or eye contact may cause irritation. Human health effects of ingestion are not well known. However, ingestion of other chemicals with similar properties are known to cause dizziness, mental disturbances, cyanosis, nausea, stomach pain, difficulty in hearing, convulsions and coma.

BICINE may be harmful if ingested, inhaled, or absorbed through the skin. May cause eye and skin irritation. Vendor states that the human health effects have not been thoroughly investigated.

CHLOROACETAMIDE is a SENSITIZER. Repeated exposure may cause skin allergy effects with dermatitis or eczema.

#### Carcinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

### 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

#### 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.

#### Initial Containment

Follow applicable Federal, State/Provincial and Local laws/  
regulations.

### HANDLING AND STORAGE

#### Handling (Personnel)

Avoid inhalation. Avoid contact with eyes, skin or clothing.  
Wash thoroughly after handling. Do not store or consume food,

drink or tobacco in areas where they may become contaminated with this material.

#### Storage

See package/insert sheet.

### 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

### PHYSICAL AND CHEMICAL PROPERTIES

#### Physical Data

A self-contained cartridge with liquid in wells 1,2 and 7; tablets in wells 3,4,5, and 6.

### STABILITY AND REACTIVITY

#### Chemical Stability

Stable at normal temperatures and storage conditions.

#### 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.

## REGULATORY INFORMATION

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

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

## OTHER INFORMATION

StabilZyme(R) is a registered trademark of the BSI Corp.  
DIMENSION is a registered trademark of Dade Behring Inc.

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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

# Indicates updated section.

End of MSDS