

## TU Flex® reagent cartridge

MSDS no. DEDM0020

### Section 1. Chemical product and company identification

- Product Trade Name** : TU Flex® reagent cartridge
- Product code** : DF75A K6075
- Synonyms** : Thyronine Uptake reagent cartridge  
Dimension® clinical chemistry system Flex® reagent cartridge TU  
Dimension Vista™ System Flex® reagent cartridge TU
- Manufactured/ Supplied** : Dade Behring Inc.  
Corporate Headquarters  
1717 Deerfield Road  
Deerfield, IL 60015-0778  
1-847-267-5300
- Dade Behring Canada Inc.  
1200 Courtneypark Drive East  
Mississauga, Ontario, Canada  
L5T-1P2  
(905) 564-7333  
(800) 264-0083
- In Case of Emergency** Transportation: (800) 424-9300 (CHEMTREC)  
Medical: (800) 228-5635 ext. 284 (Prosar)
- Material uses** : Diagnostic agents.

### Section 2. Hazards identification

- Physical state** : Liquid.
- Emergency overview** : Warning!  
CAUSES SEVERE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.  
MAY CAUSE ALLERGIC SKIN REACTION.  
CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING ORGANS:  
NERVOUS SYSTEM, IMMUNE SYSTEM.  
MAY BE HARMFUL IF SWALLOWED.

#### Potential acute health effects

- Eyes** : Irritating to eyes.
- Skin** : Severely irritating to the skin. May cause sensitization by skin contact.
- Inhalation** : Harmful by inhalation.
- Ingestion** : Harmful if swallowed.
- Carcinogenic effects** : No known significant effects or critical hazards.
- Mutagenic effects** : No known significant effects or critical hazards.
- Reproduction toxicity** : No known significant effects or critical hazards.

See toxicological information (section 11)

## Section 3. Composition, Information on Ingredients

<b>Name</b>	<b>CAS number</b>	<b>% by weight</b>
mannitol, d-	69-65-8	20
poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy- 2,4,6(1h,3h,5h)-pyrimidinetrione, 5,5-diethyl-, monosodium salt	25322-68-3	5
[Sodium barbitol]	144-02-5	2.5
sodium azide	26628-22-8	<0.1

## Section 4. First aid measures

<b>Eye contact</b>	: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if irritation occurs.
<b>Skin contact</b>	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if symptoms occur.
<b>Inhalation</b>	: If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms appear.
<b>Ingestion</b>	: Move exposed person to fresh air. Loosen tight clothing such as a collar, tie, belt or waistband. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

## Section 5. Fire fighting measures

<b>Flammability of the product</b>	: Non-flammable.
<b>Fire-fighting media and instructions</b>	: In case of fire, use water spray (fog), foam or dry chemical.
<b>Special protective equipment for fire-fighters</b>	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

<b>Personal precautions</b>	: Put on appropriate personal protective equipment (see section 8).
<b>Environmental precautions</b>	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
<b>Methods for cleaning up</b>	: Absorb with an inert material and transfer the spilled material and absorbent to an appropriate waste disposal container.

## Section 7. Handling and storage

<b>Handling</b>	: Do not ingest. Avoid contact with eyes, skin and clothing. Keep container closed. Use only with adequate ventilation. Avoid breathing vapor or mist. Wash thoroughly after handling.
<b>Storage</b>	: Keep container tightly closed. Keep container in a cool, well-ventilated area.

## Section 8. Exposure controls, personal protection

<b>Engineering controls</b>	: Good general ventilation should be sufficient to control airborne levels.
<b>Personal protection</b>	
<b>Eyes</b>	: Safety glasses.
<b>Skin</b>	: Lab coat. Additional body garments should be used (e.g. sleevelets, apron, disposable suit etc.), based on the task being performed.
<b>Respiratory</b>	: A respirator is not needed under normal and intended conditions of product use.
<b>Hands</b>	: Synthetic or rubber gloves

Consult local authorities for acceptable exposure limits.

## Section 9. Physical and chemical properties

<b>Physical state</b>	: Liquid.
<b>pH</b>	: Basic.
<b>Boiling/condensation point</b>	: The lowest known value is 100°C (212°F) (water).
<b>Melting/freezing point</b>	: May start to solidify at 0°C (32°F) based on data for: water.
<b>Specific gravity</b>	: Weighted average: 1.38 (Water = 1)
<b>Ionicity (in water)</b>	: Amphoteric. (water).

## Section 10. Stability and reactivity

<b>Stability and reactivity</b>	: The product is stable.
<b>Incompatibility with various substances</b>	: Reactive or incompatible with the following materials: oxidizing materials and acids. Slightly reactive or incompatible with the following materials: alkalis.
<b>Hazardous polymerization</b>	: Will not occur.

## Section 11. Toxicological information

### Toxicity data

<b>Ingredient name</b>	<b>Test</b>	<b>Result</b>	<b>Route</b>	<b>Species</b>
poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-	LD50	600 mg/kg	Oral	Rat
	LD50	1054 mg/kg	Oral	Rat
	LD50	27500 mg/kg	Oral	Rat
	LD50	>20000 mg/kg	Dermal	Rabbit
2,4,6(1h,3h,5h)-pyrimidinetrione, 5,5-diethyl-, monosodium salt	LD50	600 mg/kg	Oral	Rat
	LD50	800 mg/kg	Oral	Mouse
1,3-propanediol, 2-amino-2-(hydroxymethyl)-	LDLo	275 mg/kg	Oral	Rabbit
	LD50	5900 mg/kg	Oral	Rat
	LDLo	1000 mg/kg	Oral	Rabbit

### Chronic Effects

**CARCINOGENIC EFFECTS:** None identified.

Contains material which causes damage to the following organs: blood, kidneys, the nervous system, immune system.

## Section 12. Ecological information

### Ecotoxicity data

<b>Ingredient name</b>	<b>Species</b>	<b>Period</b>	<b>Result</b>
poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-	Oncorhynchus mykiss (LC50)	96 hour/hours	>20000 mg/l

**Products of degradation** : These products are carbon oxides (CO, CO<sub>2</sub>) and water, nitrogen oxides (NO, NO<sub>2</sub> etc.), phosphates. Some metallic oxides.

**Toxicity of the products of biodegradation** : The products of degradation are as toxic as the product itself.

## Section 13. Disposal considerations

**Waste disposal** : The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.  
Sodium azide may react with lead or copper plumbing to form highly explosive metal azides.

Consult your local or regional authorities.

**Section 14. Transport information**

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
DOT Classification	Not regulated.	-	-	-		-
IATA-DGR Class	Not regulated.	-	-	-		-

**Section 15. Regulatory information****United States**

**HCS Classification** : Irritating material  
Sensitizing material  
Target organ effects

**U.S. Federal regulations** : SARA 302/304/311/312 extremely hazardous substances: No products were found.  
SARA 302/304 emergency planning and notification: No products were found.  
SARA 302/304/311/312 hazardous chemicals: No products were found.  
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: 2,4,6 (1h,3h,5h)-pyrimidinetrione, 5,5-diethyl-, monosodium salt: Immediate (acute) health hazard, Delayed (chronic) health hazard  
Clean Water Act (CWA) 307: No products were found.  
Clean Water Act (CWA) 311: No products were found.  
Clean Air Act (CAA) 112 accidental release prevention: No products were found.  
Clean Air Act (CAA) 112 regulated flammable substances: No products were found.  
Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

**State regulations** : Rhode Island RTK hazardous substances: sodium azide  
Pennsylvania RTK: sodium azide: (environmental hazard, generic environmental hazard)  
Florida: sodium azide  
Minnesota: sodium azide  
Massachusetts RTK: sodium azide  
Massachusetts spill list: sodium azide  
New Jersey: sodium azide  
New Jersey spill list: sodium azide

**WARNING:** This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

<u>P65 Ingredient name</u>	<u>Cancer</u>	<u>Reproductive</u>	<u>No significant risk level</u>	<u>Max acceptable dosage</u>
2,4,6(1h,3h,5h)-pyrimidinetrione, 5,5-diethyl-, monosodium salt	No.	Yes.	No.	No.

**Canada**

**WHMIS (Canada)** : Not a WHMIS controlled material.  
CEPA DSL: water; mannitol, d-; 2,4,6(1h,3h,5h)-pyrimidinetrione, 5,5-diethyl-, monosodium salt

## Section 16. Other information

<b>Label requirements</b>	: This product is not classified according to EU legislation.
<b>Date of printing</b>	: 9/26/2006.
<b>Date of issue</b>	: 9/26/2006.
<b>Version</b>	: 1.03

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.