

CK Flex® reagent cartridge

MSDS no. DEDM0007

Section 1. Chemical product and company identification

- Product Trade Name** : CK Flex® reagent cartridge
- Product code** : DF29A K2029
- Synonyms** : Creatine Kinase Flex® reagent cartridge
Dimension® clinical chemistry system Flex® reagent cartridge CK
Dimension Vista™ System Flex® reagent cartridge CK
- Manufactured/ Supplied** : Dade Behring Inc.
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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)
- Product Information** : 800-441-9250
- Material uses** : Diagnostic agents.

Section 2. Hazards identification

- Physical state** : Solid.
- Emergency overview** : Warning!
HARMFUL IF SWALLOWED.
CAUSES EYE AND SKIN IRRITATION.
MAY CAUSE ALLERGIC SKIN REACTION.
CAUSES DAMAGE TO THE FOLLOWING ORGANS: KIDNEYS, LUNGS, MUCOUS MEMBRANES, GASTROINTESTINAL TRACT, RESPIRATORY TRACT, SKIN, EYES.
CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING ORGANS: NERVOUS SYSTEM, DIGESTIVE SYSTEM, CENTRAL NERVOUS SYSTEM.

Potential acute health effects

Routes of entry

- Eyes** : Irritating to eyes.
- Skin** : Irritating to skin. May cause sensitization by skin contact.
- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : Toxic 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

Name	CAS number	% by weight
4-morpholineethanesulfonic acid, sodium salt	71119-23-8	13
glucitol	50-70-4	12
magnesium acetate, tetrahydrate	16674-78-5	9
poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-	25322-68-3	5
2,3-butanediol, 1,4-dimercapto-, (r*,s*)-	6892-68-8	3
acetic acid, (ethylenedinitrilo)tetra-, tetrasodium salt, dihydrate	10378-23-1	3
2-chloracetamide	79-07-2	<2

Section 4. First aid measures

Eye contact	: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention.
Skin contact	: Get medical attention immediately. Flush contaminated skin with plenty of water. Continue to rinse for at least 10 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse.
Inhalation	: If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms appear.
Ingestion	: Get medical attention immediately. 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.

Section 5. Fire fighting measures

Flammability of the product	: Non-flammable.
Fire-fighting media and instructions	: In case of fire, use water spray (fog), foam or dry chemical.
Special protective equipment for fire-fighters	: 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

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

Section 7. Handling and storage

Handling	: Do not ingest. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
Storage	: Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8. Exposure controls, personal protection

Engineering controls	: Good general ventilation should be sufficient to control airborne levels.
Personal protection	
Eyes	: Safety glasses.
Skin	: Lab coat.
Respiratory	: A respirator is not needed under normal and intended conditions of product use.
Hands	: Chemical-resistant gloves.

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Product name

Exposure limits

poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-

AIHA WEEL (United States, 1/2005).

TWA: 10 mg/m³ 8 hour/hours. Form: Aerosol

Consult local authorities for acceptable exposure limits.

Section 9. Physical and chemical properties

Physical state	: Solid.
Color	: White.
Odor	: Thiol. (Slight.)
pH	: 6.4 (Conc. (% w/w): 2) [Acidic.]
Melting/freezing point	: Weighted average: 161.1°C (322°F)
Specific gravity	: Weighted average: 1.37 (Water = 1)

Section 10. Stability and reactivity

Stability and reactivity	: The product is stable.
Conditions of instability	: Stable at normal temperatures and storage conditions.
Incompatibility with various substances	: Reactive or incompatible with the following materials: oxidizing materials, reducing materials, combustible materials, metals, acids, alkalis and moisture.
Hazardous decomposition products	: These products are halogenated compounds, hydrogen chloride.
Hazardous polymerization	: No.

Section 11. Toxicological information

Toxicity data

Ingredient name	Test	Result	Route	Species
glucitol	LD50	15900 mg/kg	Oral	Rat
	LD50	17800 mg/kg	Oral	Mouse
	LDLo	1700 mg/kg	Oral	Human/30 min
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
2-chloracetamide	LD50	>20000 mg/kg	Dermal	Rabbit
	LD50	138 mg/kg	Oral	Rat
	LD50	122 mg/kg	Oral	Rabbit
	LD50	31 mg/kg	Oral	Dog

Chronic Effects

CARCINOGENIC EFFECTS: None identified. **MUTAGENIC EFFECTS:** Mutagenic for bacteria and/or yeast. [2-chloracetamide].

Causes damage to the following organs: kidneys, lungs, mucous membranes, gastrointestinal tract, upper respiratory tract, skin, eyes.

Section 12. Ecological information

Ecotoxicity data

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

Products of degradation : Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

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

Special remarks on the products of biodegradation : Do not discharge to natural waters.

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.

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 : Toxic material
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: glucitol; 2-chloracetamide
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: glucitol: Delayed (chronic) health hazard; 2-chloracetamide: 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 : Florida: glycine, n-[imino(phosphonoamino)methyl]-n-methyl-
Minnesota: poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-

Canada

WHMIS (Canada) : Not a WHMIS controlled material.
CEPA DSL: .alpha.-d-glucopyranoside, .alpha.-d-glucopyranosyl;
4-morpholineethanesulfonic acid, sodium salt; glucitol; glycine, n-[imino (phosphonoamino)methyl]-n-methyl-; magnesium acetate, tetrahydrate; poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-; 4-morpholineethanesulfonic acid; d-glucose; 2,3-butanediol, 1,4-dimercapto-, (r*,s*); 2-chloracetamide; adenosine 5'- (hexahydrogen pentaphosphate), 5'->5'-ester with adenosine, trilithium salt

Section 16. Other information

Label requirements

:



Irritant

R43- May cause sensitization by skin contact.

S24- Avoid contact with skin.

S37- Wear suitable gloves.

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Version

: 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.