

Section 1. Chemical product and company identification

Product Trade Name	: Dimension® system UCFP Flex® reagent cartridge
Product code	: DF26
Synonyms	: Urinary/Cerebrospinal Fluid Protein Flex® reagent cartridge Dimension® clinical chemistry system Flex® reagent cartridge UCFP
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)
Product Information	: 800-441-9250
Material uses	: Diagnostic agents.

Section 2. Hazards identification

Physical state	: Liquid.
Emergency overview	: Danger! CAUSES EYE BURNS. CAUSES SEVERE SKIN IRRITATION. CAUSES RESPIRATORY TRACT IRRITATION. CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING ORGANS: LUNGS, NERVOUS SYSTEM, GASTROINTESTINAL TRACT, RESPIRATORY TRACT, SKIN, CENTRAL NERVOUS SYSTEM, EYE, LENS OR CORNEA. MAY BE HARMFUL IF SWALLOWED.

Potential acute health effects

Routes of entry

Eyes	: Corrosive to eyes.
Skin	: Severely irritating to the skin.
Inhalation	: Irritating to respiratory system.
Ingestion	: Harmful if swallowed. May cause burns to mouth, throat and stomach.
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
methanol		5
sodium hydroxide	1310-73-2	<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	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse.
Inhalation	: If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms appear.
Ingestion	: 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 if symptoms occur.

Section 5. Fire fighting measures

Flammability of the product	: Non-flammable.
Auto-ignition temperature	: The lowest known value is 464°C (867.2°F) (methanol).
Flash point	: The lowest known value is Closed cup: 12°C (53.6°F). Open cup: 15.85°C (60.5°F). (methanol)
Flammable limits	: The greatest known range is Lower: 5.5% Upper: >13% (methanol)
Products of combustion	: These products are carbon oxides (CO, CO ₂). Some metallic oxides.
Fire-fighting media and instructions	: In case of fire, use water spray (fog), foam or dry chemical. No specific hazard.
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	: Avoid contact with eyes, skin and clothing. Keep container closed. Use only with adequate ventilation. Avoid breathing vapor or mist. 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	: Additional body garments should be used to avoid exposed skin surfaces (e.g. sleevelets, apron, disposable suit etc.), based on the task being performed.
Respiratory	: A respirator is not needed under normal and intended conditions of product use.
Hands	: Chemical-resistant gloves.

Product name

methanol

Exposure limits

OSHA PEL (United States, 8/1997).

TWA: 260 mg/m³ 8 hour/hours. Form: All forms

TWA: 200 ppm 8 hour/hours. Form: All forms

OSHA PEL 1989 (United States, 3/1989). Skin

STEL: 325 mg/m³ 15 minute/minutes. Form: All forms

STEL: 250 ppm 15 minute/minutes. Form: All forms

TWA: 260 mg/m³ 8 hour/hours. Form: All forms

TWA: 200 ppm 8 hour/hours. Form: All forms

ACGIH TLV (United States, 1/2005). Skin Notes: Substances for which there is a Biological Exposure Index or Indices

STEL: 328 mg/m³ 15 minute/minutes. Form: All forms

STEL: 250 ppm 15 minute/minutes. Form: All forms

TWA: 262 mg/m³ 8 hour/hours. Form: All forms

TWA: 200 ppm 8 hour/hours. Form: All forms

sodium hydroxide

OSHA PEL (United States, 8/1997).

TWA: 2 mg/m³ 8 hour/hours.

OSHA PEL 1989 (United States, 3/1989).

CEIL: 2 mg/m³

ACGIH TLV (United States, 1/2006).

CEIL: 2 mg/m³

Consult local authorities for acceptable exposure limits.

Section 9. Physical and chemical properties

- Physical state** : Liquid.
- Boiling/condensation point** : The lowest known value is 64.5°C (148.1°F) (methanol). Weighted average: 98.21°C (208.8°F)
- Melting/freezing point** : May start to solidify at 0°C (32°F) based on data for: water. Weighted average: -4.94°C (23.1°F)
- Specific gravity** : Weighted average: 0.99 (Water = 1)
- Vapor pressure** : The highest known value is 12.9 kPa (97 mm Hg) (at 20°C) (methanol).
- Vapor density** : The highest known value is 1.11 (Air = 1) (methanol).
- Odor threshold** : The lowest known value is 100 ppm (methanol)
- Evaporation rate** : 2.1 (methanol) compared with Butyl acetate.
- Ionicity (in water)** : Amphoteric. (water).

Section 10. Stability and reactivity

- Stability and reactivity** : The product is stable.
- Hazardous decomposition products** : None identified.

Section 11. Toxicological information

Toxicity data

<i>Ingredient name</i>	<i>Test</i>	<i>Result</i>	<i>Route</i>	<i>Species</i>
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Dimension® system UCFP Flex® reagent cartridge

methanol	LD50	5628 mg/kg	Oral	Rat
	LD50	14200 mg/kg	Oral	Rabbit
	LD50	7300 mg/kg	Oral	Mouse
	LD50	15800 mg/kg	Dermal	Rabbit
	LDLo	143 mg/kg	Oral	Human/30 min
	LDLo	428 mg/kg	Oral	Human/30 min
	LDLo	6422 mg/kg	Oral	Male
	LDLo	393 mg/kg	Dermal	Monkey.
	LC50	64000 ppm (4 hour/hours)	Inhalation	Rat
	sodium hydroxide	LDLo	500 mg/kg	Oral
LDLo		1.57 mg/kg	Oral	human

Chronic Effects

CARCINOGENIC EFFECTS: Classified None. by OSHA, None. by NIOSH

Contains material which causes damage to the following organs: lungs, the nervous system, gastrointestinal tract, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

Section 12. Ecological information**Ecotoxicity data**

Ingredient name	Species	Period	Result
methanol	Daphnia magna (EC50)	48 hour/hours	>10000 mg/l
	Oncorhynchus mykiss (EC50)	48 hour/hours	13200 mg/l
	Lepomis macrochirus (EC50)	48 hour/hours	16000 mg/l
	Pimephales promelas (LC50)	96 hour/hours	>100 mg/l
	Daphnia magna (LC50)	96 hour/hours	>100 mg/l
	Lepomis macrochirus (LC50)	96 hour/hours	15400 mg/l

Products of degradation : These products are carbon oxides (CO, CO₂) and water. Some metallic oxides.



Toxicity of the products of biodegradation : The products of degradation are less toxic than 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.

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	1824	Sodium Hydroxide solution (succinic acid)	8	III		- No additional remark.
IATA-DGR Class	1824	Sodium hydroxide solution (sodium hydroxide)	8	III		-

Section 15. Regulatory information

United States

- HCS Classification** : Irritating 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: methanol; sodium hydroxide
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: methanol;
Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard; sodium hydroxide: Immediate (acute) health hazard
Clean Water Act (CWA) 307: No products were found.
Clean Water Act (CWA) 311: sodium hydroxide
Clean Air Act (CAA) 112 accidental release prevention: methanol
Clean Air Act (CAA) 112 regulated flammable substances: No products were found.
Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

SARA 313

	<u>Product name</u>	<u>CAS number</u>	<u>Concentration</u>
Form R - Reporting requirements	: methanol		5
Supplier notification	: methanol		5

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

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

Canada

- WHMIS (Canada)** : Not a WHMIS controlled material.
CEPA DSL: water; methanol; sodium hydroxide

CEPA NDSL: spiro[3h-2,1-benzoxathiole-3,9'-[9h]xanthene]-3',4',5',6'-tetrol, 1,1-dioxide

Canadian NPRI: methanol

Section 16. Other information

Label requirements



Harmful
R20/21/22- Harmful by inhalation, in contact with skin and if swallowed.
R36/38- Irritating to eyes and skin. R68- Possible risk of irreversible effects.
S36/37- Wear suitable protective clothing and gloves.

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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.