



Ortho-Clinical Diagnostics

a Johnson & Johnson company

Material Safety Data Sheet

Product code: OCDUS1662659B4D

Revision date: 04-03-2007

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Supplier:

Ortho-Clinical Diagnostics, Inc.
100 Indigo Creek Drive
Rochester, NY 14626-5101

Customer service telephone:

(800) 421-3311

Emergency telephone number:

(800) 424-9300 ChemTrec (24 hours)
(703) 527-3887 (International - 24 hours)

Product name:

VITROS CHEMISTRY PRODUCTS CALIBRATOR KIT 2 -CALIBRATOR 4 DILUENT

Synonyms:

F-0067.473

KAN 966247

Product code:

OCDUS1662659B4D

Formula #:

1662659

2. HAZARDS IDENTIFICATION

Emergency overview:

This product contains ingredients that cause eye and skin irritation.

This material is not a controlled product under WHMIS

Properties affecting health:

Irritating to eyes and skin.

Principle routes of exposure:

Eye Contact:

Unknown on product.

Skin contact:

Irritating to skin.

Ingestion:

Unknown on product.

Inhalation:

Unknown on product.

Physico-chemical properties:

No hazards resulting from the material as supplied

Hazard information:

Target Organ(s)

Not available.

Reproductive effects:

Unknown on product.

Mutagenic effects:

Unknown on product.

Sensitization:

Unknown on product.

Signs and symptoms:

None.

Medical conditions aggravated by exposure:

In case of accidental ingestion, contact a physician or Poison Control Center.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Company: Johnson & Johnson

Product name: VITROS CHEMISTRY PRODUCTS CALIBRATOR KIT 2 - CALIBRATOR 4 DILUENT

Product code: OCDUS1662659B4D

Page 1 of 5

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Weight %
2-Diethylaminoethanol	100-37-8	5-10
Hydrochloric Acid	7647-01-0	1-5

4. FIRST AID MEASURES

Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.
Skin contact:	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Keep in properly labelled containers. Keep in suitable, closed containers for disposal. Wash contaminated clothing before re-use. Immediate medical attention is required.
Ingestion:	If ingested, seek medical attention immediately and show the label.
Inhalation:	Move to fresh air immediately. If experiencing difficulty breathing, seek medical attention.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Use any extinguishing media which is suitable for the surrounding fire.
Extinguishing media which must not be used for safety reasons:	None.
Special protective equipment for firefighters:	Wear a self-contained breathing apparatus and full protective gear.
Specific methods:	None.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Wear suitable gloves and eye/face protection
Environmental precautions:	Unknown on product.
Methods for cleaning up:	Flush into sewer with plenty of water. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Handling:	
Technical measures/precautions:	Keep container tightly closed and away from sources of ignition -No smoking. Ensure adequate ventilation. Provide eye baths, washing facilities, and safety showers.
Safe handling advice:	Avoid contact with skin, eyes and clothing. Wear appropriate personal protection.
Storage:	
Technical measures/storage conditions:	Keep containers tightly closed. Store per labeled instructions.
Incompatible products:	No special restrictions on storage with other products.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits

Components	ACGIH (TWA - 8hr)	ACGIH (STEL)	ACGIH (Ceiling)	OSHA (TWA - 8hr)	OSHA (Ceiling)	OSHA (STEL)
2-Diethylaminoethanol (5-10%) 100-37-8	2 ppm			50 mg/m ³ 10 ppm		
Hydrochloric Acid (1-5%) 7647-01-0			2 ppm		7 mg/m ³ 5 ppm	

Engineering controls:	Eye baths, washing facilities, and safety shower. Ensure adequate ventilation.
------------------------------	---

Personal protective equipment

Eye protection:

Wear safety glasses with side-shields.

Hand protection:

Impervious gloves recommended. Nitrile rubber gloves. Wear disposable gloves while handling kit reagents. Thoroughly wash hands afterwards. Wear suitable (Nitrile and Polyethylene) gloves

Skin and body protection

Wear suitable protective clothing. Wear suitable gloves and eye/face protection.

Respiratory protection:

None required.

Other/general protection:

None.

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Physical state:

Liquid

Appearance:

colorless

Color:

Colorless

Odor:

Odorless

Important Health Safety and Environmental Information

Flash point:

Not determined

Boiling point/range:

212 °F 100 °C

pH:

8.0

Vapor density:

0.5 (Air=1)

Vapor pressure:

24 mbar (18 mmHg) @ 20°C

Other information

Explosivity:

None.

10. STABILITY AND REACTIVITY

Chemical stability:

Stable under recommended storage conditions.

Materials to avoid:

Unknown on product.

Conditions to avoid:

Keep away from heat and sources of ignition

Keep container tightly closed.

Store at or below -18°C (0°F).

Hazardous polymerization:

Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Eye contact

Causes eye irritation.

Skin contact

Causes skin irritation.

Ingestion

Not available.

Inhalation

Not available.

Sub-Chronic / Chronic Toxicity

No repeat dose data available.

Specific effects

Target Organ(s)

Not available.

Genotoxic effects

Not available.

11. TOXICOLOGICAL INFORMATION

Reproductive effects	Not available.
Developmental effects	Not available.
Carcinogenic effects	Not available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects:	This product has no known eco-toxicological effects.
Aquatic toxicity effects:	This product has no known aquatic toxicological effects.

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:	Waste disposal must be in accordance with appropriate US, Federal, State and International regulations.
Contaminated packaging:	None.

14. TRANSPORT INFORMATION

Product not regulated by DOT, IATA/ICAO, IMO/IMDG, ADR/RID, or TDG.

15. REGULATORY INFORMATION

Components	CAS Number	SARA 313	SARA 302	CERCLA	CEPA
Hydrochloric Acid (1-5%)	7647-01-0	Listed	Listed	Listed	

SARA (311, 312) hazard class

Immediate health:	None.
Delayed health:	None.
Fire:	None.
Sudden Release of Pressure Hazard:	None.
Reactivity:	None.

State Regulations

Components	CAS Number	NJRTK	PARTK	MARTK	RIRTK
2-Diethylaminoethanol (5-10%)	100-37-8	Listed	Listed	Listed	Listed
Hydrochloric Acid (1-5%)	7647-01-0	Listed	Listed	Listed	Listed

International Inventories

Components	TSCA	DSL	NDSL
2-Diethylaminoethanol (5-10%)	Listed.	Listed.	
Hydrochloric Acid (1-5%)	Listed.	Listed.	

WHMIS:

WHMIS trade secret:	None.
WHMIS hazard class:	D2B Toxic Materials.

Company: Johnson & Johnson

Product name: VITROS CHEMISTRY PRODUCTS CALIBRATOR KIT 2 - CALIBRATOR 4 DILUENT

Product code: OCDUS1662659B4D

Page 4 of 5

**Notes:**

1. SARA = Superfund Amendments and the Reauthorization Act.
2. CERCLA = Comprehensive Environmental Response, Compensations and Liability Act.
3. FIFRA = Federal Insecticide, Fungicide and Rodenticide Act.
4. TSCA = Toxic Substance Control Act.
5. WHMIS = Canadian Workplace Hazardous Materials Information System.
6. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. OTHER INFORMATION**This data sheet contains changes from the previous version in section(s):**

Changes since the last publication are highlighted in red followed by three asterisks (***)

MSDS format:

- North American Format - U.S. and Canada
- This Material Safety Data Sheet was prepared in accordance with ANSI Z400.1-2004.

Disclaimer:

The information and recommendations contained herein are based upon tests believed to be reliable. However, Johnson and Johnson does not guarantee their accuracy or completeness NOR SHALL ANY OF THIS INFORMATION CONSTITUTE A WARRANTY, WHETHER EXPRESSED OR IMPLIED, AS TO THE SAFETY OF THE GOODS, THE MERCHANTABILITY OF THE GOODS, OR THE FITNESS OF THE GOODS FOR A PARTICULAR PURPOSE. Adjustment to conform to actual conditions of usage may be required. Johnson and Johnson assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied.

End of Safety Data Sheet