

Issuing Date 01-Jun-2015

Revision Date 01-Jun-2015

Revision Number 0

Section 1. Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier****Product Code(s)** OCDUS1662659B4D**Product Name** VITROS Chemistry Products Calibrator Kit 2 - Calibrator 4 Diluent**Pure substance/mixture** Mixture

Contains Diethylaminoethanol

1.2. Relevant identified uses of the substance or mixture and uses advised against**Recommended Use** Aqueous buffer solution**Uses advised against** No information available**1.3. Details of the supplier of the safety data sheet****Importer**OCD ESC
24, Bld Sebastien Brant BP 30335
Illkirch Graffenstaden
67411
France**Supplier**Ortho-Clinical Diagnostics, Inc.
100 Indigo Creek Drive
Rochester, NY 14626-5101**For further information, please contact****E-mail Address** UK - uk hotline@its.jnj.com
French - hotlinefrance@its.jnj.com
German - ocdtechsupport-de@its.jnj.com
Italian - italianhl@its.jnj.com
Nordic - nordichotline@its.jnj.com
Polish - polskahl@its.jnj.com
Portuguese - Port_OCD hotline@its.jnj.com
South Ireland - UK hotline@its.jnj.com
Spanish - spanishhotline@its.jnj.com**1.4. Emergency telephone number****Emergency Telephone Number****Transportation Emergencies:**

US Telephone Number: (800) 424-9300

International and Maritime Telephone Number: +1 (703) 527-3887

US:

(800) 421-3311

EuropeUK 0800 895 963
French 03 88 65 47 33
German 0800 181 48 97
Italian 800 870 655
Nordic 00800 0837 2560
Polish 0800 331 13 58
Portuguese 800 83 31 43
South Ireland +33 (0) 3 88 65 47 63
Spanish 900 97 33 25**Section 2. Hazards identification**

2.1. - Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Skin Corrosion/Irritation	Category 1
Serious Eye Damage/Eye Irritation	Category 1
Specific Target Organ Systemic Toxicity (Single Exposure)	Category 3

Physical Hazards

None

2.2. Label Elements



Signal Word

Danger

Hazard Statements

H314 - Causes severe skin burns and eye damage

H335 - May cause respiratory irritation

Precautionary Statements - EU (§28, 1272/2008)

P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray

P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection

P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P310 - Immediately call a POISON CENTER or doctor/ physician

2.3. Other information

May cause drowsiness and dizziness.

Section 3. Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Chemical Name	EC-No	CAS-No	Weight %	EU - GHS Substance Classification	REACH No.
Diethylaminoethanol	202-845-2	100-37-8	5.988	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Skin Corr. 1B (H314) Flam. Liq. 3 (H226) Acute Tox. 4 (H332)	No data available

For the full text of the H-Statements mentioned in this Section, see Section 16

Section 4. First aid measures

4.1. Description of first-aid measures

General Advice	If symptoms persist, call a physician.
Eye Contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Call a physician or Poison Control Center immediately.
Skin Contact	Wash off immediately with soap and plenty of water for at least 15 minutes while removing all contaminated clothing and shoes. Call a physician or Poison Control Center immediately. Remove and wash contaminated clothing before re-use.
Ingestion	Rinse mouth. Drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician.
Inhalation	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician or Poison Control Center immediately.
Protection of First-aiders	Use personal protective equipment.

4.2. Most important symptoms and effects, both acute and delayed

Most Important Symptoms/Effects Burning. Tearing. Drowsiness. Dizziness.

4.3. Indication of immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

Section 5. Fire-fighting measures

5.1. Extinguishing media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Extinguishing media which must not be used for safety reasons

No information available.

5.2. Special hazards arising from the substance or mixture

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

Thermal decomposition can lead to release of irritating gases and vapors.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

As in any fire, wear self-contained breathing apparatus and full protective gear.

Section 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Refer to Section 8.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so.

6.3. Methods and materials for containment and cleaning up

Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

Clean contaminated surface thoroughly.

6.4. Reference to other sections

See Section 12 for additional information.

Section 7. Handling and storage

7.1. Precautions for Safe Handling

Handling

Ensure adequate ventilation. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing. Use only in area provided with appropriate exhaust ventilation. Wear personal protective equipment. Wash thoroughly after handling.

Hygiene Measures

When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Provide regular cleaning of equipment, work area and clothing.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers. Keep out of the reach of children.

7.3. Specific end use(s)

Exposure Scenario

No information available.

Other Guidelines

No information available.

Section 8. Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical Name	EU	The United Kingdom	France	Spain	Germany
Diethylaminoethanol 100-37-8			VME: 10 ppm VME: 50 mg/m ³	S* VLA-ED: 2 ppm VLA-ED: 9.7 mg/m ³	MAK: 5 ppm MAK: 24 mg/m ³ Ceiling / Peak: 5 ppm Ceiling / Peak: 24 mg/m ³ Skin TWA: 5 ppm TWA: 24 mg/m ³
Component	Italy	Portugal	The Netherlands	Finland	Denmark
Diethylaminoethanol 100-37-8 (5.988)		TWA: 2 ppm		STEL: 10 ppm STEL: 49 mg/m ³ Skin	TWA: 2 ppm TWA: 9.6 mg/m ³ Skin

Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Diethylaminoethanol 100-37-8	Skin STEL 5 ppm STEL 24 mg/m ³ MAK: 5 ppm MAK: 24 mg/m ³ Ceiling 5 ppm Ceiling 24 mg/m ³	Skin MAK: 10 ppm MAK: 50 mg/m ³	NDSch: 26 mg/m ³ NDS: 13 mg/m ³ Skin	TWA: 10 ppm TWA: 50 mg/m ³ Skin STEL: 20 ppm STEL: 75 mg/m ³	TWA: 10 ppm TWA: 50 mg/m ³ Skin

Derived No Effect Level No information available
Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering Measures Ensure adequate ventilation, especially in confined areas.
Personal protective equipment
Eye Protection Tightly fitting safety goggles.
Skin and Body Protection Long sleeved clothing.
Hand Protection Impervious gloves.
Respiratory Protection When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Environmental Exposure Controls No information available.

Section 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State Liquid
Odor Odorless
Appearance Colorless

Property	Values	Remarks/ - Method
pH	8.0	None known
Melting Point/Range	No data available	None known
Boiling Point/Boiling Range	100 °C / 212 °F	None known
Flash Point	Not determined.	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Vapor Pressure	24 mbar (18 mmHg) @ 20°C	None known
Vapor Density	0.5 (Air=1)	None known
Relative Density	No data available	None known
Water Solubility	No data available	None known
Solubility in other solvents	No data available	None known
Partition coefficient: n-octanol/water	No data available	None known
Autoignition Temperature	No data available	None known
Decomposition Temperature	No data available	None known
Viscosity	No data available	None known
Explosive Properties	No data available	
Oxidizing Properties	No data available	

9.2. Other information

VOC Content (%) No information available
Flammability Limits in Air No data available

Section 10. Stability and reactivity

10.1. Reactivity

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

Heat.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

Carbon dioxide (CO₂). Carbon monoxide (CO). Nitrogen oxides (NO_x).

Section 11. Toxicological information

11.1. Information on toxicological effects

Acute Toxicity

Product Information

Inhalation

Irritating to respiratory system.

Eye Contact

Irritating to eyes. Causes serious eye damage.

Skin Contact

Irritating to skin. Causes severe skin burns.

Ingestion

May cause drowsiness and dizziness.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Diethylaminoethanol	= 1300 mg/kg (Rat)	= 1260 mg/kg (Rabbit)	

Sensitization

No information available.

Mutagenic Effects

No information available.

Carcinogenic Effects

No information available.

Reproductive Toxicity

No information available.

Developmental Toxicity

No information available.

STOT - single exposure

Eyes. Skin. Respiratory system.

STOT - repeated exposure

No information available.

Aspiration Hazard

No information available.

Section 12. Ecological information

12.1. Toxicity

Ecotoxicity Effects

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Diethylaminoethanol	EC50 72 h: = 30 mg/L (Desmodesmus subspicatus)	LC50 96 h: 100-220 mg/L static (Leuciscus idus) LC50 96 h: 1660-1920 mg/L flow-through (Pimephales promelas)		EC50 48 h: = 83.6 mg/L (Daphnia magna Straus)

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential.

Chemical Name	Log Pow
Diethylaminoethanol	0.21

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

This product does not contain any known or suspected endocrine disruptors.

Section 13. Disposal considerations

13.1. Waste treatment methods

Waste from Residues / Unused Products	Dispose of in accordance with local regulations.
Contaminated Packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.
Other Information	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

Section 14. Transport information

IMDG/IMO

14.1. UN-Number	UN2686
14.2. Proper Shipping Name	2-Diethylaminoethanol solution
14.3. Hazard Class	8
Subsidiary Class	3
14.4. Packing Group	II
Description	UN2686, 2-Diethylaminoethanol solution, 8 (3), II
14.5. Marine Pollutant	None.
14.6. Special Provisions	None.
EmS No.	F-E, S-C
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No information available.

RID

14.1. UN-Number	UN2686
14.2. Proper Shipping Name	2-Diethylaminoethanol solution
14.3. Hazard Class	8
ADR/RID-Labels	3
14.4. Packing Group	II
Description	UN2686, 2-Diethylaminoethanol solution, 8 (3), II
14.5. Environmental hazard	None.
14.6. Special Provisions	None.

Classification Code	CF1
ADR	
14.1. UN-Number	UN2686
14.2. Proper Shipping Name	2-Diethylaminoethanol solution
14.3. Hazard Class	8
ADR/RID-Labels	3
14.4. Packing Group	II
Description	UN2686, 2-Diethylaminoethanol solution, 8 (3), II, (D/E)
14.5. Environmental hazard	None.
14.6. Special Provisions	None.
Classification Code	CF1
Tunnel Restriction Code	(D/E)
ICAO	
14.1. UN-Number	UN2686
14.2. Proper shipping name	2-Diethylaminoethanol solution
14.3. Hazard Class	8
Subsidiary Class	3
14.4. Packing Group	II
Description	UN2686, 2-Diethylaminoethanol solution, 8 (3), II
14.5. Environmental hazard	None.
14.6. Special Provisions	None.
IATA	
14.1. UN-Number	UN2686
14.2. Proper Shipping Name	2-Diethylaminoethanol solution
14.3. Hazard Class	8
Subsidiary Class	3
14.4. Packing Group	II
Description	UN2686, 2-Diethylaminoethanol solution, 8 (3), II
14.5. Environmental hazard	None.
14.6. Special Provisions	None.
ERG Code	8F

Section 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

International Inventories

TSCA	Exempt
EINECS/ELINCS	Exempt
DSL/NDL	Exempt
PICCS	Exempt
ENCS	Exempt
IECSC	Exempt -
AICS	Exempt
KECL	Exempt

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
PICCS - Philippines Inventory of Chemicals and Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
AICS - Australian Inventory of Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances

15.2. Chemical Safety Assessment

No information available

Section 16. Other information

Full text of H-Statements referred to under sections 2 and 3

H302 - Harmful if swallowed
H312 - Harmful in contact with skin
H314 - Causes severe skin burns and eye damage
H226 - Flammable liquid and vapor
H332 - Harmful if inhaled
H335 - May cause respiratory irritation

Key literature references and sources for data

www.ChemADVISOR.com/

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Revision Note Initial Release.

This safety data sheet complies with the requirements of Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No. 1907/2006

General Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet