



# Cardiac Troponin Assay Reagents, Calibrators and Controls Safety Data Sheet 1187

according to Regulation (EC) No. 453/2010

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## SECTION 1 Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product form	Mixture
Product name	Cardiac Troponin Assay
	Reagent R1, Reagent R2, Calibrators and Controls
Product code	DZ145A
	DZ145A-R1, DZ145A-R2, DZ145A-CAL, DZ145A-CON
Product group	Blend

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

No additional information available

#### 1.2.2. Uses advised against

No additional information available

### 1.3. Details of the supplier of the safety data sheet

Supplier: Diazyme Laboratories  
12889 Gregg Court  
92064 Poway  
T 858-455-4768

Authorized Representative: MDSS GmbH  
Schiffgraben 41  
Germany  
(+49) 511-6262-8630

### 1.4. Emergency telephone number

Emergency number Contact your local health authority or poison control center in an emergency. Manufacturer contact number for the US is as follows: (858) 455-4768

## SECTION 2 Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

#### Applicable to Controls only

Flam. Liq. 2 H225

Full text of H-statements: see section 16

### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS02

Signal word (CLP)

Danger

Hazard statements (CLP)

H225 - Highly flammable liquid and vapour

Precautionary statements (CLP)

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
P233 - Keep container tightly closed  
P240 - Ground/bond container and receiving equipment  
P241 - Use explosion-proof electrical/ventilating/lighting/... equipment  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower  
P370+P378 - In case of fire: Use ... to extinguish  
P403+P235 - Store in a well-ventilated place. Keep cool  
P501 - Dispose of contents/container to ...

# Cardiac Troponin Assay

## Reagents, Calibrators and Controls

### Safety Data Sheet 1187

according to Regulation (EC) No. 453/2010

#### 2.3. Other hazards

No additional information available

### SECTION 3 Composition/information on ingredients

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Methanol	(CAS No) 67-56-1 (EC no) 200-659-6 (EC index no) 603-001-00-X	0.64 (Controls only)	Flam. Liq. 2, H225 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Oral), H301 STOT SE 1, H370

#### Specific concentration limits

Name	Product identifier	Specific concentration limits
Methanol	(CAS No) 67-56-1 (EC no) 200-659-6 (EC index no) 603-001-00-X	(3 ≤ C < 10) STOT SE 2, H371 (C ≥ 10) STOT SE 1, H370

Full text of H-phrases: see section 16

### SECTION 4 First aid measures

#### 4.1. Description of first aid measures

First-aid measures after inhalation	Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing.
First-aid measures after eye contact	Rinse eyes with water as a precaution.
First-aid measures after ingestion	Call a poison center or a doctor if you feel unwell.

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

No additional information available

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### SECTION 5 Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media Water spray. Dry powder. Foam. Carbon dioxide.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard Highly flammable liquid and vapour.  
Hazardous decomposition products in case of fire Toxic fumes may be released.

#### 5.3. Advice for firefighters

Protection during firefighting Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

### SECTION 6 Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

Emergency procedures Ventilate spillage area. No open flames, no sparks, and no smoking.

##### 6.1.2. For emergency responders

Protective equipment Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.  
Other information Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

# Cardiac Troponin Assay

## Reagents, Calibrators and Controls

### Safety Data Sheet 1187

according to Regulation (EC) No. 453/2010

#### SECTION 7 Handling and storage

##### 7.1. Precautions for safe handling

Precautions for safe handling

Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment.

Hygiene measures

Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

##### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures

Ground/bond container and receiving equipment.

Storage conditions

Store in a well-ventilated place. Keep cool. Keep container tightly closed.

##### 7.3. Specific end use(s)

No additional information available

#### SECTION 8 Exposure controls/personal protection

##### 8.1. Control parameters

Methanol (67-56-1)		
EU	IOELV TWA (mg/m <sup>3</sup> )	260 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	200 ppm
Belgium	Limit value (mg/m <sup>3</sup> )	266 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	200 ppm
Belgium	Short time value (mg/m <sup>3</sup> )	mg/m <sup>3</sup>
Belgium	Short time value (ppm)	250 ppm
France	VME (mg/m <sup>3</sup> )	Methanol,260 mg/m <sup>3</sup> ; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante
France	VME (ppm)	Methanol,200 ppm; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante
France	VLE (mg/m <sup>3</sup> )	Methanol,1300 mg/m <sup>3</sup> ; France; Short time value; VL: Valeur non réglementaire indicative
France	VLE (ppm)	Methanol,1000 ppm; France; Short time value; VL: Valeur non réglementaire indicative
Germany	Local name	Methanol
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	270 mg/m <sup>3</sup>
Germany	TRGS 900 Occupational exposure limit value (ppm)	200 ppm
Germany	Remark (TRGS 900)	DFG,EU,H,Y
Italy	Local name	Metanolo
Italy	OEL TWA (mg/m <sup>3</sup> )	260 mg/m <sup>3</sup>
Italy	OEL TWA (ppm)	200 ppm
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	Methanol,133 mg/m <sup>3</sup> ; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value
Netherlands	Grenswaarde TGG 8H (ppm)	Methanol,100 ppm; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value
Spain	Local name	Metanol ( Alcohol metílico)
Spain	VLA-ED (mg/m <sup>3</sup> )	266 mg/m <sup>3</sup> Vía dérmica (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del control biológico para poder cuantificar la cantidad global absorbida del contaminante. Para más información véase el Apartado 5 de este documento.), VLB (Agente químico que tiene Valor Límite Biológico específico en este documento.) , VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo. Todos estos agentes químicos figuran al menos en una de las directivas de valores límite indicativos publicadas hasta ahora (ver Anexo C. Bibliografía). Los estados miembros disponen de un tiempo fijado en dichas directivas para su trasposición a los valores límites de cada país miembro. Una vez adoptados, estos valores tienen la misma validez que el resto de los valores adoptados por el país.)

# Cardiac Troponin Assay

## Reagents, Calibrators and Controls

### Safety Data Sheet 1187

according to Regulation (EC) No. 453/2010

Methanol (67-56-1)		
Spain	VLA-ED (ppm)	200 ppm Vía dérmica (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del control biológico para poder cuantificar la cantidad global absorbida del contaminante. Para más información véase el Apartado 5 de este documento.), VLB (Agente químico que tiene Valor Límite Biológico específico en este documento.) , VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo. Todos estos agentes químicos figuran al menos en una de las directivas de valores límite indicativos publicadas hasta ahora (ver Anexo C. Bibliografía). Los estados miembros disponen de un tiempo fijado en dichas directivas para su trasposición a los valores límites de cada país miembro. Una vez adoptados, estos valores tienen la misma validez que el resto de los valores adoptados por el país.)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	266 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	200 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	333 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	250 ppm
USA - ACGIH	Local name	Methanol
USA - ACGIH	ACGIH TWA (ppm)	200 ppm
USA - ACGIH	ACGIH STEL (ppm)	200 ppm
USA - ACGIH	Remark (ACGIH)	Headache; eye dam; dizziness; nausea
USA - OSHA	Local name	Methyl alcohol
USA - OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	260 mg/m <sup>3</sup>
USA - OSHA	OSHA PEL (TWA) (ppm)	200 ppm

#### 8.2. Exposure controls

Appropriate engineering controls	Ensure good ventilation of the work station.
Hand protection	Protective gloves
Eye protection	Safety glasses
Skin and body protection	Wear suitable protective clothing
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment
Environmental exposure controls	Avoid release to the environment.

## SECTION 9 Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	Liquid
Colour	No data available
Odour	No data available
Odour threshold	No data available
pH	No data available
Relative evaporation rate (butylacetate=1)	No data available
Melting point	Not applicable
Freezing point	No data available
Boiling point	No data available
Flash point	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	Not applicable
Vapour pressure	No data available
Relative vapour density at 20 °C	No data available
Relative density	No data available
Solubility	No data available
Log Pow	No data available
Viscosity, kinematic	No data available

# Cardiac Troponin Assay

## Reagents, Calibrators and Controls

### Safety Data Sheet 1187

according to Regulation (EC) No. 453/2010

Viscosity, dynamic	No data available
Explosive properties	No data available
Oxidising properties	No data available
Explosive limits	No data available

#### 9.2. Other information

No additional information available

### SECTION 10 Stability and reactivity

#### 10.1. Reactivity

Highly flammable liquid and vapour.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### SECTION 11 Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity Not classified

Methanol (67-56-1)	
LD50 oral rat	> 5000 mg/kg (Rat; BASF test; Literature study; 1187-2769 mg/kg bodyweight; Rat; Weight of evidence)
LD50 dermal rabbit	15800 mg/kg (Rabbit; Literature study)
LC50 inhalation rat (mg/l)	85 mg/l/4h (Rat; Literature study)
LC50 inhalation rat (ppm)	64000 ppm/4h (Rat; Literature study)

Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitisation	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
Specific target organ toxicity (single exposure)	Not classified
Specific target organ toxicity (repeated exposure)	Not classified
Aspiration hazard	Not classified

### SECTION 12 Ecological information

#### 12.1. Toxicity

Ecology - general The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

Methanol (67-56-1)	
LC50 fish 1	15400 mg/l (96 h; Lepomis macrochirus; Lethal)
EC50 Daphnia 1	> 10000 mg/l (48 h; Daphnia magna; Lethal)
LC50 fish 2	10800 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
EC50 Daphnia 2	24500 mg/l (48 h; Daphnia magna; Locomotor effect)
Threshold limit other aquatic organisms 1	6600 mg/l (16 h; Pseudomonas putida)
Threshold limit algae 1	530 mg/l (192 h; Microcystis aeruginosa)
Threshold limit algae 2	8000 mg/l (168 h; Scenedesmus quadricauda)

#### 12.2. Persistence and degradability

Methanol (67-56-1)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.

# Cardiac Troponin Assay

## Reagents, Calibrators and Controls

### Safety Data Sheet 1187

according to Regulation (EC) No. 453/2010

Methanol (67-56-1)	
Biochemical oxygen demand (BOD)	0.6 - 1.12 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	1.42 g O <sub>2</sub> /g substance
ThOD	1.5 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.8 % ThOD

#### 12.3. Bioaccumulative potential

Methanol (67-56-1)	
BCF fish 1	< 10 (72 h; Leuciscus idus)
BCF fish 2	1 (72 h; Cyprinus carpio; Blood)
Log Pow	-0.77 (Experimental value; Other)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

#### 12.4. Mobility in soil

Methanol (67-56-1)	
Surface tension	0.023 N/m (20 °C)

#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

No additional information available

## SECTION 13 Disposal considerations

#### 13.1. Waste treatment methods

Waste treatment methods	Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information	Flammable vapours may accumulate in the container.

## SECTION 14 Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

#### 14.1. UN number

UN-No. (ADR)	Not applicable
UN-No. (IMDG)	1230
UN-No. (IATA)	1230
UN-No. (ADN)	Not applicable
UN-No. (RID)	Not applicable

#### 14.2. UN proper shipping name

Proper Shipping Name (ADR)	Not applicable
Proper Shipping Name (IMDG)	METHANOL
Proper Shipping Name (IATA)	Methanol
Proper Shipping Name (ADN)	Not applicable
Proper Shipping Name (RID)	Not applicable
Transport document description (IMDG)	UN 1230 METHANOL, 3 (6.1), II

#### 14.3. Transport hazard class(es)

##### ADR

Transport hazard class(es) (ADR)	Not applicable
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##### IMDG

Transport hazard class(es) (IMDG)	3 (6.1)
Danger labels (IMDG)	3, 6.1



##### IATA

Transport hazard class(es) (IATA)	3 (6.1)
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# Cardiac Troponin Assay

## Reagents, Calibrators and Controls

### Safety Data Sheet 1187

according to Regulation (EC) No. 453/2010

Hazard labels (IATA) 3, 6.1



#### ADN

Transport hazard class(es) (ADN) Not applicable

#### RID

Transport hazard class(es) (RID) Not applicable

#### 14.4. Packing group

Packing group (ADR) Not applicable  
Packing group (IMDG) II  
Packing group (IATA) II  
Packing group (ADN) Not applicable  
Packing group (RID) Not applicable

#### 14.5. Environmental hazards

Dangerous for the environment No  
Marine pollutant No  
Other information No supplementary information available

#### 14.6. Special precautions for user

##### - Overland transport

No data available

##### - Transport by sea

Special provisions (IMDG) 279  
Limited quantities (IMDG) 1 L  
Excepted quantities (IMDG) E2  
Packing instructions (IMDG) P001  
IBC packing instructions (IMDG) IBC02  
Tank instructions (IMDG) T7  
Tank special provisions (IMDG) TP2  
EmS-No. (Fire) F-E  
EmS-No. (Spillage) S-D  
Stowage category (IMDG) B  
Flash point (IMDG) 12°C c.c.

##### - Air transport

PCA Excepted quantities (IATA) E2  
PCA Limited quantities (IATA) Y341  
PCA limited quantity max net quantity (IATA) 1L  
PCA packing instructions (IATA) 352  
PCA max net quantity (IATA) 1L  
CAO packing instructions (IATA) 364  
CAO max net quantity (IATA) 60L  
Special provisions (IATA) A104, A113  
ERG code (IATA) 3L

##### - Inland waterway transport

Carriage prohibited (ADN) No  
Not subject to ADN No

##### - Rail transport

Carriage prohibited (RID) No

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

# Cardiac Troponin Assay

## Reagents, Calibrators and Controls

### Safety Data Sheet 1187

according to Regulation (EC) No. 453/2010

#### SECTION 15 Regulatory information

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

###### 15.1.1. EU-Regulations

Contains no substances with Annex XVII restrictions  
Contains no substance on the REACH candidate list  
Contains no REACH Annex XIV substances

###### 15.1.2. National regulations

###### Germany

VwVwS Annex reference Water hazard class (WGK) nwg, Non-hazardous to water (Classification according to VwVwS, Annex 4)  
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

###### Netherlands

SZW-lijst van kankerverwekkende stoffen None of the components are listed  
SZW-lijst van mutagene stoffen None of the components are listed  
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding None of the components are listed  
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid None of the components are listed  
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling Methanol is listed

###### Denmark

Recommendations Danish Regulation Pregnant/breastfeeding women working with the product must not be in direct contact with the product

##### 15.2. Chemical safety assessment

No additional information available

#### SECTION 16 Other information

Full text of H- and EUH-statements

Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Flam. Liq. 2	Flammable liquids, Category 2
STOT SE 1	Specific target organ toxicity — single exposure, Category 1
H225	Highly flammable liquid and vapour
H301	Toxic if swallowed
H311	Toxic in contact with skin
H331	Toxic if inhaled
H370	Causes damage to organs

SDS EU Diazyme with CLP

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*