

# **Kit Components**

Kit Product No.	Kit Product Description
340503	BD Multitest™ IMK KIT

Kit Component(s)	Kit Component(s) Description
342416	BD Multitest <sup>™</sup> CD3/CD16+CD56/CD45/CD19
342417	BD Multitest <sup>™</sup> CD3/CD8/CD45/CD4
91-0248	BD Multitest <sup>™</sup> IMK Kit Lysing Solution

#### IMDG

	Not ve sulstad
UN Number:	Not regulated.
UN Proper Shipping Name:	Not regulated.
Transport Hazard Class(es)	
Class:	Not regulated.
	-
Label(s):	Not regulated.
EmS No.:	Not regulated.
Packing Group:	Not regulated.
Environmental Hazards:	Not regulated.
	•
Marine Pollutant:	Not regulated.
Special precautions for user:	Not regulated.
ΙΑΤΑ	
	Not regulated
UN Number:	Not regulated.
Proper Shipping Name:	Not regulated.
Transport Hazard Class(es):	
Class:	Not regulated.
Label(s):	Not regulated.
	2
Packing Group:	Not regulated.

Label(s):	Not regulated.
Packing Group:	Not regulated.
Environmental Hazards:	Not regulated.
Marine Pollutant:	Not regulated.



Special precautions for user: Not regulated.

Please note: If a listed component does not have a corresponding document included, this means that the product is not hazardous and does not require a Safety Data Sheet.



# **SAFETY DATA SHEET**

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as

amended.

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

#### 1.1 Product identifier

Product No.:	Product name:	Common name(s), synonym(s)
342416	BD Multitest™ CD3/CD16+CD56/CD45/ CD19	No data available

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against Identified uses: Scientific and industrial laboratory use. For In Vitro Diagnostic Use. Uses advised against: None known.

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

#### Manufacturer

Becton Dickinson France S.A.S. Belgian Branch Erembodegem-Dorp 86 Erembodegem 9320 Belgium

**Telephone:** 32 2 400 98 95 **Fax:** 32 2 401 70 94

Contact Person: BD Biosciences - Centralized European Office Regulatory Compliance Department E-mail: help.biosciences@europe.bd.com

**1.4 Emergency telephone number:** 32 2 400 98 95

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

The product has not been classified as hazardous according to the legislation in force.

### Classification according to Regulation (EC) No 1272/2008 as amended.

Not classified



- 2.2 Label Elements Not applicable
- **2.3 Other hazards** No data available.

## SECTION 3: Composition/information on ingredients

#### **3.2 Mixtures**

General information:

No hazardous ingredients.

Regulation No. 1272/2008.

SECTION 4: First aid measures		
General:	Get medical attention if symptoms occur.	
4.1 Description of first aid I	neasures	
Inhalation:	Provide fresh air, warmth and rest, preferably in comfortable upright sitting position.	
Eye contact:	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses.	
Skin Contact:	Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse.	
Ingestion:	Call a physician or poison control center immediately. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person.	
4.2 Most important symptoms and effects, both acute and delayed:	No data available.	
4.3 Indication of any imme Hazards:	diate medical attention and special treatment needed No data available.	

Treatment: No data available.



#### SECTION 5: Firefighting measures **General Fire Hazards:** Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Use water spray to keep fire-exposed containers cool. 5.1 Extinguishing media Suitable extinguishing Use fire-extinguishing media appropriate for surrounding media: materials. Unsuitable Not applicable extinguishing media: 5.2 Special hazards arising Fire or excessive heat may produce hazardous decomposition from the substance or products. mixture: 5.3 Advice for firefighters Special fire fighting No unusual fire or explosion hazards noted. procedures: **Special protective** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber equipment for firefighters: boots, and in enclosed spaces, SCBA.

#### **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures:	Contact local authorities in case of spillage to drain/aquatic environment. Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area.
6.2 Environmental Precautions:	Avoid release to the environment.
6.3 Methods and material for containment and cleaning up:	Absorb spillage with suitable absorbent material. Prevent runoff from entering drains, sewers, or streams. See Section 8 of the SDS for Personal Protective Equipment. For waste disposal, see section 13 of the SDS.
6.4 Reference to other sections:	No data available.



# SECTION 7: Handling and storage:

7.1 Precautions for safe handling:	When using do not eat, drink or smoke. Read and follow manufacturer's recommendations. Use personal protective equipment as required.
7.2 Conditions for safe storage, including any incompatibilities:	Store in a cool, dry place. Keep container tightly closed.
7.3 Specific end use(s):	Reserved for industrial and professional use. Read label before use.

### **SECTION 8: Exposure controls/personal protection**

8.1 Control Parameters Occupational Exposure L	imits	
	None of the components have assigned exposure limits.	
<b>Biological Limit Values</b>	None.	
8.2 Exposure controls Appropriate Engineering Controls:	No special requirements under ordinary conditions of use and with adequate ventilation.	
Individual protection measures, such as personal protective equipment		
General information:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.	
Eye/face protection:	Wear safety glasses with side shields (or goggles).	
Skin protection Hand Protection:	Chemical resistant gloves Suitable gloves can be recommended by the glove supplier. Wash hands after contact.	
Other:	Wear a lab coat or similar protective clothing.	



Respiratory Protection:	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.
Hygiene measures:	Observe good industrial hygiene practices.
Environmental Controls:	No data available.

# SECTION 9: Physical and chemical properties

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

I Information on busic physical and c	inclined properties
Appearance	
Physical state:	liquid
Form:	No data available.
Color:	Colorless to pale brown
Odor:	Odorless
Odor Threshold:	No data available.
pH:	7.2 - 7.6
Freezing point:	No data available.
Boiling Point:	No data available.
Flash Point:	No data available.
Evaporation Rate:	No data available.
Flammability (solid, gas):	No data available.
Flammability Limit - Upper (%):	No data available.
Flammability Limit - Lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density (air=1):	No data available.
Relative density:	No data available.
Solubility(ies)	
Solubility in Water:	Soluble
Solubility (other):	No data available.
Partition coefficient (n- octanol/water):	No data available.
Autoignition Temperature:	No data available.
Decomposition Temperature:	No data available.
SADT:	No data available.
Viscosity:	No data available.
Explosive properties:	No data available.
Oxidizing properties:	No data available.



### 9.2 Other information

Molecular weight: VOC Content:	No data available. No data available.
Bulk density:	No data available.
Dust Explosion Limit, Upper:	No data available.
Dust Explosion Limit, Lower:	No data available.
Dust Explosion Description Number Kst:	No data available.
Minimum ignition energy:	No data available.
Minimum ignition temperature:	No data available.
Metal Corrosion:	No data available.

# SECTION 10: Stability and reactivity

10.1 Reactivity:	Material is stable under normal conditions.	
10.2 Chemical Stability:	Material is stable under normal conditions.	
10.3 Possibility of hazardous reactions:	Not determined.	
10.4 Conditions to avoid:	Avoid exposure to high temperatures or direct sunlight.	
10.5 Incompatible Materials:	Metals. Water reactive material.	
10.6 Hazardous Decomposition Products:	Stable; however, may decompose if heated.	

# SECTION 11: Toxicological information

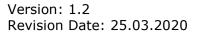
General information:	No data on possible toxicity effects have been found.	
Information on likely ro Inhalation:	<b>utes of exposure</b> Limited inhalation hazard at normal work temperatures.	
Ingestion:	No harmful effects expected in amounts likely to be ingested by accident.	
Skin Contact:	Negligible irritation to skin at ambient temperatures.	



Eye contact:	Elevated temperatures or mechanical action may form vapors, mist, or fumes which may be irritating to the eyes, nose, throat, or lungs.
11.1 Information on toxicol	ogical effects
Acute toxicity	
Oral Product:	Not classified for acute toxicity based on available data.
Dermal Product:	Not classified for acute toxicity based on available data.
Inhalation Product:	Not classified for acute toxicity based on available data.
Repeated dose toxicity Product:	No data available.
Skin Corrosion/Irritation: Product:	No data available.
Serious Eye Damage/Eye Irritation: Product:	No data available.
Respiratory or Skin Sensitization: Product:	No data available.
Germ Cell Mutagenicity	
In vitro Product:	No data available.



In vivo Product:	No data available.
Carcinogenicity Product:	No data available.
Reproductive toxicity Product:	No data available.
Specific Target Organ T Product:	oxicity - Single Exposure No data available.
Specific Target Organ T Product:	oxicity - Repeated Exposure No data available.
Aspiration Hazard Product:	No data available.
SECTION 12: Ecological in	formation
12.1 Toxicity	
Acute toxicity	
Fish Product:	No negative effects on the aquatic environment are known.
Aquatic Invertebrates Product:	No negative effects on the aquatic environment are known.
Chronic Toxicity	
Fish Product:	No negative effects on the aquatic environment are known.





Aquatic Invertebrates Product:	No negative effects on the aquatic environment are known.	
Toxicity to Aquatic Plant Product:	<b>ts</b> No negative effects on the aquatic environment are known.	
12.2 Persistence and Degradability		
Biodegradation Product:	Expected to be readily biodegradable.	
BOD/COD Ratio Product	No data available.	

- 12.3 Bioaccumulative potential Product: No data available.
- **12.4 Mobility in soil:**<br/>Product:No data available.
- **12.5 Results of PBT and vPvB assessment:Product:**No data available.
- **12.6 Other adverse** The product is not expected to be hazardous to the environment. **effects:**
- **SECTION 13: Disposal considerations**

#### **13.1 Waste treatment methods**

General information:	Dispose of waste and residues in accordance with local authority requirements.
Disposal methods:	Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

## **SECTION 14: Transport information**



#### ADR

14.1 UN Number: 14.2 UN Proper Shipping Name: 14.3 Transport Hazard Class(es) Class: Label(s): Hazard No. (ADR): Tunnel restriction code: 14.4 Packing Group:	Not regulated. Not regulated. Not regulated. Not regulated. Not regulated. Not regulated. Not regulated.
14.5 Environmental Hazards: Marine Pollutant:	Not regulated. Not regulated.
14.6 Special precautions for user:	Not regulated.
ADN	
14.1 UN Number: 14.2 UN Proper Shipping Name: 14.3 Transport Hazard Class(es)	Not regulated. Not regulated.
Class: Label(s): Hazard No. (ADR): Tunnel restriction code:	Not regulated. Not regulated. Not regulated. Not regulated.
14.4 Packing Group:	Not regulated.
14.5 Environmental Hazards: Marine Pollutant:	Not regulated. Not regulated.
14.6 Special precautions for user:	Not regulated.

#### RID

14.1 UN Number: 14.2 UN Proper Shipping Name 14.3 Transport Hazard Class(es)	Not regulated. Not regulated.
Class:	Not regulated.
Label(s):	Not regulated.
14.4 Packing Group:	Not regulated.
14.5 Environmental Hazards:	Not regulated.
Marine Pollutant:	Not regulated.



14.6 Special precautions for user:

Not regulated.

#### IMDG

14.1 UN Number: 14.2 UN Proper Shipping Name: 14.3 Transport Hazard Class(es)	Not regulated. Not regulated.
Class:	Not regulated.
Label(s):	Not regulated.
EmS No.:	Not regulated.
<ul><li>14.4 Packing Group:</li><li>14.5 Environmental Hazards:</li><li>Marine Pollutant:</li></ul>	Not regulated. Not regulated. Not regulated.
14.6 Special precautions for user:	Not regulated.

#### ΙΑΤΑ

14.1 UN Number:	Not regulated.
14.2 Proper Shipping Name:	Not regulated.
14.3 Transport Hazard Class(es):	
Class:	Not regulated.
Label(s):	Not regulated.
14.4 Packing Group:	Not regulated.
14.5 Environmental Hazards:	Not regulated.
Marine Pollutant:	Not regulated.
14.6 Special precautions for	Not regulated.
	Not regulated.
user:	

**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code**: Not applicable

#### SECTION 15: Regulatory information

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



#### **EU Regulations**

Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer: none

Regulation (EC) No. 850/2004 on persistent organic pollutants: none

Regulation (EC) No. 649/2012 Import and export of dangerous chemicals: none

EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC): none

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended:** none

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use: none Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work.: none

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.: none

Directive 96/82/EC (Seveso III): on the control of major accident hazards involving dangerous substances:

Chemical name	CAS-No.	Concentration
sodium azide	26628-22-8	0 - <0.1%

EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants: none

Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work:

Chemical name	CAS-No.	Concentration
sodium azide	26628-22-8	0 - <0.1%

# **15.2 Chemical safety** No Chemical Safety Assessment has been carried out. **assessment:**

SECTION 16: Other information

**Revision Information:** Not relevant.



References PBT vPvB	PBT: persistent, bioaccumulative and toxic substance. vPvB: very persistent and very bioaccumulative substance.
Key literature references and sources for data:	European Chemicals Agency (ECHA): Information on Chemicals.
Wording of the H-stateme	ents in section 2 and 3: none
Training information:	No data available.
Issue Date: SDS No.: Disclaimer:	25.03.2020 UN0000000000342416-1149-1-01 Disclaimer: The information contained herein has been obtained from various sources and is believed to be correct as of the date issued. However, neither BD nor any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability for a particular use 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. BD provides SDS in electronic form so the information may be more easily accessed. Due to the possibility of errors during transmission, BD makes no representations as to the completeness or accuracy of the information.



# **SAFETY DATA SHEET**

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as

amended.

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

#### **1.1 Product identifier**

Product No.:	Product name:	Common name(s), synonym(s)
342417	BD Multitest™ CD3/CD8/CD45/CD4	No data available

1.2 Relevant identified uses of the substance or mixture and uses advised against Identified uses: Scientific and industrial laboratory use. For In Vitro Diagnostic Use. Uses advised against: None known.

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

#### Manufacturer

Becton Dickinson France S.A.S. Belgian Branch Erembodegem-Dorp 86 Erembodegem 9320 Belgium **Telephone:** 32 2 400 98 95 **Fax:** 32 2 401 70 94

**Contact Person:** BD Biosciences - Centralized European Office Regulatory Compliance Department **E-mail:** help.biosciences@europe.bd.com

**1.4 Emergency telephone number:** 32 2 400 98 95

# SECTION 2: Hazards identification

# 2.1 Classification of the substance or mixture

The product has not been classified as hazardous according to the legislation in force.

# Classification according to Regulation (EC) No 1272/2008 as amended.

Not classified



- 2.2 Label Elements Not applicable
- **2.3 Other hazards** No data available.

## SECTION 3: Composition/information on ingredients

#### **3.2 Mixtures**

General information:

No hazardous ingredients.

Regulation No. 1272/2008.

SECTION 4: First aid measures		
General:	Get medical attention if symptoms occur.	
4.1 Description of first aid I	neasures	
Inhalation:	Provide fresh air, warmth and rest, preferably in comfortable upright sitting position.	
Eye contact:	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses.	
Skin Contact:	Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse.	
Ingestion:	Call a physician or poison control center immediately. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person.	
4.2 Most important symptoms and effects, both acute and delayed:	No data available.	
4.3 Indication of any imme Hazards:	diate medical attention and special treatment needed No data available.	

Treatment: No data available.



#### SECTION 5: Firefighting measures **General Fire Hazards:** Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Use water spray to keep fire-exposed containers cool. 5.1 Extinguishing media Suitable extinguishing Use fire-extinguishing media appropriate for surrounding media: materials. Unsuitable Not applicable extinguishing media: 5.2 Special hazards arising Fire or excessive heat may produce hazardous decomposition from the substance or products. mixture: 5.3 Advice for firefighters Special fire fighting No unusual fire or explosion hazards noted. procedures: **Special protective** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber equipment for firefighters: boots, and in enclosed spaces, SCBA.

#### **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures:	Contact local authorities in case of spillage to drain/aquatic environment. Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area.
6.2 Environmental Precautions:	Avoid release to the environment.
6.3 Methods and material for containment and cleaning up:	Absorb spillage with suitable absorbent material. Prevent runoff from entering drains, sewers, or streams. See Section 8 of the SDS for Personal Protective Equipment. For waste disposal, see section 13 of the SDS.
6.4 Reference to other sections:	No data available.



# SECTION 7: Handling and storage:

7.1 Precautions for safe handling:	When using do not eat, drink or smoke. Read and follow manufacturer's recommendations. Use personal protective equipment as required.
7.2 Conditions for safe storage, including any incompatibilities:	Store in a cool, dry place. Keep container tightly closed.
7.3 Specific end use(s):	Reserved for industrial and professional use. Read label before use.

### **SECTION 8: Exposure controls/personal protection**

8.1 Control Parameters Occupational Exposure L	imits	
	None of the components have assigned exposure limits.	
<b>Biological Limit Values</b>	None.	
8.2 Exposure controls Appropriate Engineering Controls:	No special requirements under ordinary conditions of use and with adequate ventilation.	
Individual protection measures, such as personal protective equipment		
General information:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.	
Eye/face protection:	Wear safety glasses with side shields (or goggles).	
Skin protection Hand Protection:	Chemical resistant gloves Suitable gloves can be recommended by the glove supplier. Wash hands after contact.	
Other:	Wear a lab coat or similar protective clothing.	



Respiratory Protection:	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.
Hygiene measures:	Observe good industrial hygiene practices.
Environmental Controls:	No data available.

# SECTION 9: Physical and chemical properties

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

I Information on busic physical and c	inclined properties
Appearance	
Physical state:	liquid
Form:	No data available.
Color:	Colorless to pale brown
Odor:	Odorless
Odor Threshold:	No data available.
pH:	7.2 - 7.6
Freezing point:	No data available.
Boiling Point:	No data available.
Flash Point:	No data available.
Evaporation Rate:	No data available.
Flammability (solid, gas):	No data available.
Flammability Limit - Upper (%):	No data available.
Flammability Limit - Lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density (air=1):	No data available.
Relative density:	No data available.
Solubility(ies)	
Solubility in Water:	Soluble
Solubility (other):	No data available.
Partition coefficient (n- octanol/water):	No data available.
Autoignition Temperature:	No data available.
Decomposition Temperature:	No data available.
SADT:	No data available.
Viscosity:	No data available.
Explosive properties:	No data available.
Oxidizing properties:	No data available.



### 9.2 Other information

Molecular weight: VOC Content:	No data available. No data available.
Bulk density:	No data available.
Dust Explosion Limit, Upper:	No data available.
Dust Explosion Limit, Lower:	No data available.
Dust Explosion Description Number Kst:	No data available.
Minimum ignition energy:	No data available.
Minimum ignition temperature:	No data available.
Metal Corrosion:	No data available.

# SECTION 10: Stability and reactivity

10.1 Reactivity:	Material is stable under normal conditions.
10.2 Chemical Stability:	Material is stable under normal conditions.
10.3 Possibility of hazardous reactions:	Not determined.
10.4 Conditions to avoid:	Avoid exposure to high temperatures or direct sunlight.
10.5 Incompatible Materials:	Metals. Water reactive material.
10.6 Hazardous Decomposition Products:	Stable; however, may decompose if heated.

# SECTION 11: Toxicological information

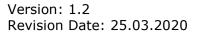
General information:	No data on possible toxicity effects have been found.
Information on likely ro Inhalation:	<b>utes of exposure</b> Limited inhalation hazard at normal work temperatures.
Ingestion:	No harmful effects expected in amounts likely to be ingested by accident.
Skin Contact:	Negligible irritation to skin at ambient temperatures.



Eye contact:	Elevated temperatures or mechanical action may form vapors, mist, or fumes which may be irritating to the eyes, nose, throat, or lungs.
11.1 Information on toxicol	ogical effects
Acute toxicity	
Oral Product:	Not classified for acute toxicity based on available data.
Dermal Product:	Not classified for acute toxicity based on available data.
Inhalation Product:	Not classified for acute toxicity based on available data.
Repeated dose toxicity Product:	No data available.
Skin Corrosion/Irritation: Product:	No data available.
Serious Eye Damage/Eye Irritation: Product:	No data available.
Respiratory or Skin Sensitization: Product:	No data available.
Germ Cell Mutagenicity	
In vitro Product:	No data available.



In vivo Product:	No data available.
Carcinogenicity Product:	No data available.
Reproductive toxicity Product:	No data available.
Specific Target Organ T Product:	oxicity - Single Exposure No data available.
Specific Target Organ T Product:	oxicity - Repeated Exposure No data available.
Aspiration Hazard Product:	No data available.
SECTION 12: Ecological in	formation
12.1 Toxicity	
Acute toxicity	
Fish Product:	No negative effects on the aquatic environment are known.
Aquatic Invertebrates Product:	No negative effects on the aquatic environment are known.
Chronic Toxicity	
Fish Product:	No negative effects on the aquatic environment are known.





Aquatic Invertebrates Product:	No negative effects on the aquatic environment are known.	
Toxicity to Aquatic Plant Product:	<b>ts</b> No negative effects on the aquatic environment are known.	
12.2 Persistence and Degradability		
Biodegradation Product:	Expected to be readily biodegradable.	
BOD/COD Ratio Product	No data available.	

- 12.3 Bioaccumulative potential Product: No data available.
- **12.4 Mobility in soil:**<br/>Product:No data available.
- **12.5 Results of PBT and vPvB assessment:Product:**No data available.
- **12.6 Other adverse** The product is not expected to be hazardous to the environment. **effects:**
- **SECTION 13: Disposal considerations**

#### **13.1 Waste treatment methods**

General information:	Dispose of waste and residues in accordance with local authority requirements.
Disposal methods:	Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

## **SECTION 14: Transport information**



#### ADR

14.1 UN Number: 14.2 UN Proper Shipping Name: 14.3 Transport Hazard Class(es) Class: Label(s): Hazard No. (ADR): Tunnel restriction code: 14.4 Packing Group:	Not regulated. Not regulated. Not regulated. Not regulated. Not regulated. Not regulated. Not regulated.
14.5 Environmental Hazards: Marine Pollutant:	Not regulated. Not regulated.
14.6 Special precautions for user:	Not regulated.
ADN	
14.1 UN Number: 14.2 UN Proper Shipping Name: 14.3 Transport Hazard Class(es)	Not regulated. Not regulated.
Class: Label(s): Hazard No. (ADR): Tunnel restriction code:	Not regulated. Not regulated. Not regulated. Not regulated.
14.4 Packing Group:	Not regulated.
14.5 Environmental Hazards: Marine Pollutant:	Not regulated. Not regulated.
14.6 Special precautions for user:	Not regulated.

#### RID

14.1 UN Number: 14.2 UN Proper Shipping Name 14.3 Transport Hazard Class(es)	Not regulated. Not regulated.
Class:	Not regulated.
Label(s):	Not regulated.
14.4 Packing Group:	Not regulated.
14.5 Environmental Hazards:	Not regulated.
Marine Pollutant:	Not regulated.



14.6 Special precautions for user:

Not regulated.

#### IMDG

14.1 UN Number: 14.2 UN Proper Shipping Name: 14.3 Transport Hazard Class(es)	Not regulated. Not regulated.
Class:	Not regulated.
Label(s):	Not regulated.
EmS No.:	Not regulated.
<ul><li>14.4 Packing Group:</li><li>14.5 Environmental Hazards:</li><li>Marine Pollutant:</li></ul>	Not regulated. Not regulated. Not regulated.
14.6 Special precautions for user:	Not regulated.

#### ΙΑΤΑ

14.1 UN Number:	Not regulated.
14.2 Proper Shipping Name:	Not regulated.
14.3 Transport Hazard Class(es):	
Class:	Not regulated.
Label(s):	Not regulated.
14.4 Packing Group:	Not regulated.
14.5 Environmental Hazards:	Not regulated.
Marine Pollutant:	Not regulated.
14.6 Special precautions for	Not regulated.
	Not regulated.
user:	

**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code**: Not applicable

#### SECTION 15: Regulatory information

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



#### **EU Regulations**

Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer: none

Regulation (EC) No. 850/2004 on persistent organic pollutants: none

Regulation (EC) No. 649/2012 Import and export of dangerous chemicals: none

EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC): none

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended:** none

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use: none Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work.: none

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.: none

Directive 96/82/EC (Seveso III): on the control of major accident hazards involving dangerous substances:

Chemical name	CAS-No.	Concentration
sodium azide	26628-22-8	0 - <0.1%

EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants: none

Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work:

Chemical name	CAS-No.	Concentration
sodium azide	26628-22-8	0 - <0.1%

# **15.2 Chemical safety** No Chemical Safety Assessment has been carried out. **assessment:**

SECTION 16: Other information

**Revision Information:** Not relevant.



References PBT vPvB	PBT: persistent, bioaccumulative and toxic substance. vPvB: very persistent and very bioaccumulative substance.	
Key literature references and sources for data:		
Wording of the H-stateme	ents in section 2 and 3: none	
Training information:	No data available.	
Issue Date: SDS No.: Disclaimer:	25.03.2020 UN0000000000342417-1149-1-01 Disclaimer: The information contained herein has been obtained from various sources and is believed to be correct as of the date issued. However, neither BD nor any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability for a particular use 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. BD provides SDS in electronic form so the information may be more easily accessed. Due to the possibility of errors during transmission, BD makes no representations as to the completeness or accuracy of the information.	



# **SAFETY DATA SHEET**

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as

amended.

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

#### 1.1 Product identifier

Product No.:	Product name:	Common name(s), synonym(s)
91-0248	BD Multitest™ IMK Kit Lysing Solution	

1.2 Relevant identified uses of the substance or mixture and uses advised against Identified uses: Scientific and industrial laboratory use. For In Vitro Diagnostic Use. Uses advised against: None known.

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

#### Manufacturer

Becton Dickinson France S.A.S. Belgian Branch Erembodegem-Dorp 86 Erembodegem 9320 Belgium **Telephone:** 32 2 400 98 95 **Fax:** 32 2 401 70 94

**Contact Person:** BD Biosciences - Centralized European Office Regulatory Compliance Department **E-mail:** help.biosciences@europe.bd.com

**1.4 Emergency telephone number:** 32 2 400 98 95

# **SECTION 2: Hazards identification**

# **2.1 Classification of the substance or mixture**

The product has been classified according to the legislation in force.

# Classification according to Regulation (EC) No 1272/2008 as amended.

Acute toxicity (Oral)	Category 4	H302: Harmful if swallowed.
Acute toxicity (Dermal)	Category 4	H312: Harmful in contact with skin.



Acute toxicity (Inhalation - vapor)	Category 4	H332: Harmful if inhaled.
Skin irritation	Category 2	H315: Causes skin irritation.
Serious eye irritation	Category 2	H319: Causes serious eye irritation.
Skin sensitizer	Category 1	H317: May cause an allergic skin reaction.
Germ Cell Mutagenicity	Category 2	H341: Suspected of causing genetic defects.
Carcinogenicity	Category 1B	H350: May cause cancer.
Specific Target Organ Toxicity - Single Exposure	Category 2	H371: May cause damage to organs.
Specific Target Organ Toxicity - Single Exposure	Category 3	H335: May cause respiratory irritation.
Specific Target Organ Toxicity - Repeated Exposure	Category 2 (Kidney)	H373: May cause damage to organs through prolonged or repeated exposure.

#### 2.2 Label Elements

**Contains:** 

Ethanol, 2,2'-oxybis-Formaldehyde Methanol



#### Signal Word:

J

Hazard Statement(s):

or if inhaled. H315: Causes skin irritation.

H319: Causes serious eye irritation.

H317: May cause an allergic skin reaction.

H341: Suspected of causing genetic defects.

H350: May cause cancer.

H371: May cause damage to organs.

H335: May cause respiratory irritation.

H373: May cause damage to organs through prolonged or repeated exposure.

H302+H312+H332: Harmful if swallowed, in contact with skin

#### **Precautionary Statements**

Prevention:P201: Obtain special instructions before use.<br/>P202: Do not handle until all safety precautions have been<br/>read and understood.<br/>P260: Do not breathe dust/fume/gas/mist/vapors/spray.<br/>P264: Wash thoroughly after handling.<br/>P272: Contaminated work clothing should not be allowed out



of the workplace.P280: Wear protective gloves/protective clothing/eye<br/>protection/face protection.**Response:**P333+P313: If skin irritation or rash occurs: Get medical<br/>advice/attention.<br/>P304+P340: IF INHALED: Remove person to fresh air and<br/>keep comfortable for breathing.<br/>P312: Call a POISON CENTER/doctor if you feel unwell.<br/>P337+P313: If eye irritation persists: Get medical<br/>advice/attention.<br/>P308+P313: IF exposed or concerned: Get medical<br/>advice/attention.

#### **2.3 Other hazards** No data available.

#### **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

Chemical name	Concentrati on	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
2,2' - oxybisethan ol; diethylene glycol	25 - <50%	111-46-6	203-872-2	No data available.	No data available.	#
formaldehyd e%	5 - <10%	50-00-0	200-001-8	No data available.	No data available.	#
methanol	3 - <5%	67-56-1	200-659-6	01- 211943330 7-44-0186	No data available.	#

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

# This substance has workplace exposure limit(s).

#### Classification

Chemical name	CLP Classification	Notes
2,2' -oxybisethanol; diethylene glycol	STOT RE: 2: H373Acute Tox.: 4: H302	No data availabl
		e.



formaldehyde%	Acute Tox.: 3: H331Acute Tox.: 3: H301Muta.: 2: H341Skin Sens.: 1: H317Carc.: 1B: H350Skin Corr.: 1B: H314Acute Tox.: 3: H311Eye Dam.: 1: H319STOT SE: 3: H335	Note B, Note D
methanol	Flam. Liq.: 2: H225Acute Tox.: 3: H301Acute Tox.: 3: H331Acute Tox.: 3: H311STOT SE: 1: H370	No data availabl e.

Regulation No. 1272/2008.

Note B: Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid...%'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.

Note D: Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier must state on the label the name of the substance followed by the words 'non-stabilised'.

The full text for all H-statements is displayed in section 16.

#### **SECTION 4: First aid measures**

General:Get immediate medical advice/attention. May cause damage to<br/>organs through prolonged or repeated exposure. Harmful if<br/>swallowed or in contact with skin. Causes serious eye irritation.<br/>Causes skin irritation. May cause an allergic skin reaction. May<br/>cause respiratory irritation. Suspected of causing genetic defects.<br/>May cause cancer.

#### 4.1 Description of first aid measures

Inhalation:	Move the exposed person to fresh air at once. Get medical attention immediately.
Eye contact:	Important! Immediately rinse with water for at least 15 minutes. Get medical attention immediately. Continue to rinse.



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Skin Contact:	Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water. Get medical attention immediately.
Ingestion:	If swallowed, rinse mouth with water (only if the person is conscious). Call a physician or poison control center immediately.
4.2 Most important symptoms and effects, both acute and delayed:	Symptoms may be delayed.
4.3 Indication of any immed Hazards:	diate medical attention and special treatment needed May cause damage to organs through prolonged or repeated exposure. Causes serious eye irritation. Harmful if swallowed or in contact with skin. Harmful if inhaled. Causes skin irritation. May cause respiratory irritation. May cause an allergic skin reaction. May cause cancer. Suspected of causing genetic defects.
Treatment:	Get immediate medical advice/attention.
SECTION 5: Firefighting m	ieasures
General Fire Hazards:	Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Use water to keep fire exposed containers cool and disperse vapors.
5.1 Extinguishing media Suitable extinguishing media:	Water spray, fog, CO2, dry chemical, or alcohol resistant foam.
Unsuitable extinguishing media:	Avoid water in straight hose stream; will scatter and spread fire.
5.2 Special hazards arising from the substance or mixture:	Fire or excessive heat may produce hazardous decomposition products.
5.3 Advice for firefighters Special fire fighting procedures:	No unusual fire or explosion hazards noted.
Special protective equipment for fire- fighters:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber

boots, and in enclosed spaces, SCBA.

fighters:



## SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:	Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area. Contact local authorities in case of spillage to drain/aquatic environment.
6.2 Environmental Precautions:	Do not release into the environment. Environmental manager must be informed of all major spillages.
6.3 Methods and material for containment and cleaning up:	Prevent entry into waterways, sewer, basements or confined areas. Stop leak if possible without any risk. Sweep up and place in a clearly labeled container for chemical waste. See Section 8 of the SDS for Personal Protective Equipment. For waste disposal, see section 13 of the SDS.
6.4 Reference to other sections:	No data available.

## SECTION 7: Handling and storage:

7.1 Precautions for safe handling:	Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, on clothing. Do not eat, drink or smoke when using the product. Read and follow manufacturer's recommendations. Wash promptly with soap and water if skin becomes contaminated. Use personal protective equipment as required.
7.2 Conditions for safe storage, including any incompatibilities:	Store in tightly closed original container in a dry, cool and well- ventilated place.
7.3 Specific end use(s):	Reserved for industrial and professional use.

#### SECTION 8: Exposure controls/personal protection

#### **8.1 Control Parameters**

#### **Occupational Exposure Limits**

Chemical name	Туре	Exposure Limit Values	Source
---------------	------	--------------------------	--------



2,2' -oxybisethanol;	TWA	23 ppm	101	UK. EH40 Workplace Exposure
diethylene glycol			mg/m3	Limits (WELs), as amended
				(2007)
formaldehyde%	TWA	2 ppm	2.5	UK. EH40 Workplace Exposure
			mg/m3	Limits (WELs), as amended
				(2007)
	STEL	2 ppm	2.5	UK. EH40 Workplace Exposure
			mg/m3	Limits (WELs), as amended
				(2007)
methanol	TWA	200 ppm	266	UK. EH40 Workplace Exposure
			mg/m3	Limits (WELs), as amended
				(2007)
	STEL	250 ppm	333	UK. EH40 Workplace Exposure
			mg/m3	Limits (WELs), as amended
				(2007)
	TWA	200 ppm	260	EU. Indicative Exposure Limit
			mg/m3	Values in Directives 91/322/EEC,
				2000/39/EC, 2006/15/EC,
				2009/161/EU, 2017/164/EU, as
				amended (12 2009)

#### **Biological Limit Values**

None.

#### **DNEL-Values**

<b>Critical component</b>	Туре	Route of	Health	Remarks	
		Exposure	Warnings		



2,2' -oxybisethanol;	Workers	Dermal	Systemic, long-	Repeated dose
diethylene glycol			term <b>;</b> 43 mg/kg body weight/day	toxicity
	Workers	Inhalation	Systemic, long- term; 44 mg/m3	respiratory tract irritation
	Workers	Eyes	Local effect;	No hazard identified
	Workers	Inhalation	Local, long-term; 60 mg/m3	respiratory tract irritation
formaldehyde%	Workers	Inhalation	Local, short- term <b>;</b> 0.375 mg/m3	
	Workers	Dermal	Systemic, long- term <b>;</b> 240 mg/kg body weight/day	Repeated dose toxicity
	Workers	Eyes	Local effect;	No data available
	Workers	Dermal	Local, short- term; 37 µg/cm2	
	General population	Inhalation	Systemic, long- term <b>;</b> 3.2 mg/m3	Repeated dose toxicity
	Workers	Inhalation	Local, short- term; 0.75 mg/m3	
	Workers	Inhalation	Systemic, long- term; 9 mg/m3	Repeated dose toxicity
methanol	Workers	Inhalation	Systemic, long- term; 260 mg/m3	Acute toxicity
	Workers	Dermal	Systemic, long- term; 40 mg/kg body weight/day	Acute toxicity
	Workers	Inhalation	Systemic, short- term; 260 mg/m3	Acute toxicity
	Workers	Inhalation	Local, long-term; 260 mg/m3	Acute toxicity
	Workers	Inhalation	Local, short- term; 260 mg/m3	Acute toxicity

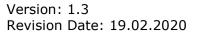
#### **PNEC-Values**

<b>Critical component</b>	Environmental	PNEC-Values	Remarks
	compartment		



2,2' -oxybisethanol; diethylene glycol	Soil	1.53 mg/kg
	Aquatic (marine water)	1 mg/l
	Sediment (freshwater)	20.9 mg/kg
	Sewage treatment plant	199.5 mg/l
	Aquatic (freshwater)	10 mg/l
	Sediment (marine water)	2.09 mg/kg
formaldehyde%		2.3 mg/kg
	Aquatic (freshwater)	0.44 mg/l
	Sewage treatment plant	0.19 mg/l
	Soil	0.2 mg/kg
	Aquatic (marine water)	0.44 mg/l
	Sediment (freshwater)	2.3 mg/kg
methanol	Aquatic (marine water)	2.08 mg/l
	Sediment (freshwater)	77 mg/kg
	Soil	100 mg/kg
	Sewage treatment plant	100 mg/l
	Aquatic (freshwater)	20.8 mg/l
	Sediment (marine water)	7.7 mg/kg

### 8.2 Exposure controls





Appropriate Engineering Controls:	Adequate ventilation should be provided so that exposure limits are not exceeded.
Individual protection me	easures, such as personal protective equipment
General information:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.
Eye/face protection:	Wear safety glasses with side shields (or goggles).
Skin protection Hand Protection:	Use suitable protective gloves if risk of skin contact.
Other:	Wear appropriate clothing to prevent reasonably probable skin contact.
Respiratory Protection:	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.
Hygiene measures:	Do not eat, drink or smoke when using the product. Do not get this material in contact with skin. Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapors/spray.
Environmental Controls:	Data available upon request.

### SECTION 9: Physical and chemical properties

# 9.1 Information on basic physical and chemical properties Appearance Physical state: Iiquid Form: Color: Color: Color: Color: Pungent Odor Threshold: No data available. No data available.



Version: 1.3 Revision Date: 19.02.2020

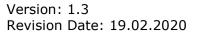
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pH:	7.1 - 8.0
Freezing point:	No data available.
Boiling Point:	No data available.
Flash Point:	No data available.
Evaporation Rate:	No data available.
Flammability (solid, gas):	No data available.
Flammability Limit - Upper (%):	No data available.
Flammability Limit - Lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density (air=1):	No data available.
Relative density:	No data available.
Solubility(ies)	
Solubility in Water:	Soluble
Solubility (other):	No data available.
Partition coefficient (n- octanol/water):	No data available.
Autoignition Temperature:	No data available.
Decomposition Temperature:	No data available.
SADT:	No data available.
Viscosity:	No data available.
Explosive properties:	No data available.
Oxidizing properties:	No data available.
9.2 Other information	
Molecular weight:	No data available.
VOC Content:	EC Directive 2004/42: 445.52 g/l ~44.55 % (calculated)
Bulk density:	No data available.
Dust Explosion Limit, Upper:	No data available.
<b>Dust Explosion Limit, Lower:</b>	No data available.
<b>Dust Explosion Description</b>	No data available.
Number Kst:	
Minimum ignition energy:	No data available.
Minimum ignition temperature:	No data available.
Metal Corrosion:	No data available.

### SECTION 10: Stability and reactivity

10.1 Reactivity:

No data available.





10.2 Chemical Stability:	No data available.
10.3 Possibility of hazardous reactions:	Do not subject to grinding/shock/friction/. Contact with acids and metals can lead to violent decomposition.
<b>10.4 Conditions to avoid:</b>	Heat, sparks, flames. Shocks and physical damage. Avoid conditions which create dust.
10.5 Incompatible Materials:	Strong acids. Strong oxidizing agents. Peroxides. Other metals or alloys.
10.6 Hazardous Decomposition Products:	By fire, toxic gases may be formed (COx, NOx).

### SECTION 11: Toxicological information

General information:	Formaldehyde: Formaldehyde has carcinogenic potential and is a known skin and respiratory sensitizer. Symptoms may be delayed.
Information on likely ro Inhalation:	<b>utes of exposure</b> Harmful if inhaled. May cause irritation to the respiratory system.
Ingestion:	Harmful if swallowed. Ingestion may cause severe irritation of the mouth, the esophagus and the gastrointestinal tract.
Skin Contact:	Causes skin irritation. Harmful in contact with skin.
Eye contact:	Irritating to eyes.

### 11.1 Information on toxicological effects

### Acute toxicity

Oral

Product: ATEmix: 624.77 mg/kg



2,2' -oxybisethanol; diethylene glycol formaldehyde% methanol	LD 50 (Human): 1,120 mg/kg Not specified, Supporting study LD 50 (Rat): 460 mg/kg Experimental result, Weight of Evidence study LD 50 (Pig): 5,000 mg/kg
Dermal Product:	ATEmix: 1,441.01 mg/kg
Specified substance(s) 2,2' -oxybisethanol; diethylene glycol	No data available.
formaldehyde%	LD 50 (Rabbit): 270 mg/kg
methanol	No data available.
Inhalation Product:	ATEmix15.59 mg/l Vapour
<b>Specified substance(s)</b> 2,2' -oxybisethanol; diethylene glycol formaldehyde% methanol	LC 50 (Rat, 6 h)5.08 mg/l LC 50 (Rat, 4 h)0.48 mg/l LOAEL (Rat, 6 h)0.27 - 13.3 mg/l Inhalation, Experimental result, Supporting study
Repeated dose toxicity Product:	No data available.
Specified substance(s) 2,2' -oxybisethanol; diethylene glycol formaldehyde% methanol	No data available. LOAEL (Rat(Male), Oral, <= 105 Weeks): 82 mg/kg LOAEL (Rat(Female), Oral, <= 105 Weeks): 109 mg/kg NOAEL (Rat(Female, Male), Inhalation): 6.66 mg/l LOAEL (Rat(Male), Inhalation, 1 - 6 Weeks): 13.3 mg/l
	NOAEL (Rat(Male), Inhalation, 1 - 6 Weeks): 2.65 mg/l NOAEL (Rat(Male), Inhalation, 1 - 6 Weeks): 0.26 mg/l NOAEL (Rat(Female, Male), Inhalation, 7,318 - 7,496 h): 0.13 mg/l



Skin Corrosion/Irritation: Product:	No data available.
Specified substance(s	)
2,2' -oxybisethanol; diethylene glycol	Non-Irritating in vivo (Rabbit): Not irritant Experimental result, Weight of Evidence study
formaldehyde% methanol	No data available. in vivo (Rabbit): Not irritant Experimental result, Key study
Serious Eye Damage/Eye	
Irritation: Product:	No data available.
Specified substance(s 2,2' -oxybisethanol; diethylene glycol	) in vivo (Rabbit, 24 hrs): Not irritating
formaldehyde% methanol	No data available. in vivo (Rabbit, 24 - 72 hrs): Not irritating
Respiratory or Skin Sensitization:	
Product:	No data available.
Specified substance(s 2,2' -oxybisethanol; diethylene glycol	<b>)</b> Skin sensitizer: Skin sensitization:, in vivo (Guinea pig): Non sensitising
formaldehyde%	Skin sensitization:, in vivo (Guinea pig): Sensitising
methanol	Skin sensitization:, in vivo (Guinea pig): Non sensitising
Germ Cell Mutagenicity	
In vitro Product:	No data available.
Specified substance(s	)
2,2' -oxybisethanol;	No data available.



methanol	No data available.
In vivo Product:	No data available.
Specified substance(s)	
2,2' -oxybisethanol; diethylene glycol	No data available.
formaldehyde%	No data available.
methanol	No data available.
Carcinogenicity	
Product:	No data available.
Specified substance(s)	
2,2' -oxybisethanol;	No data available.
diethylene glycol	
formaldehyde%	No data available.
methanol	No data available.
Reproductive toxicity	
Product:	No data available.
Specified substance(s)	
2,2' -oxybisethanol; diethylene glycol	No data available.
formaldehyde%	No data available.
methanol	No data available.
Specific Target Organ To	oxicity - Single Exposure
Product:	No data available.
Specified substance(s)	
2,2' -oxybisethanol; diethylene glycol	Based on available data, the classification criteria are not met.
formaldehyde%	Inhalation - vapor: Respiratory system - Causes damage to organs.
methanol	Oral: Nervous System - Causes damage to organs.
Specific Target Organ To	oxicity - Repeated Exposure
Product:	No data available.



2,2' -oxybisethanol;	No data available.
diethylene glycol	
formaldehyde%	No data available.
methanol	No data available.

### Target Organs: Kidney

### Aspiration Hazard Product: No data available.

<b>Specified substance(s)</b> 2,2' -oxybisethanol; diethylene glycol	No data available.
formaldehyde%	No data available.
methanol	No data available.

### SECTION 12: Ecological information

### 12.1 Toxicity

Acute toxicity	
Fish Product:	No data available.
Specified substance(s)	
2,2' -oxybisethanol; diethylene glycol	LC 50 (Pimephales promelas, 96 h): 75,200 mg/l (Acute toxicity) LC 50 (Western mosquitofish (Gambusia affinis), 48 h): > 32,000 mg/l (Static) Mortality LC 50 (Fathead minnow (Pimephales promelas), 96 h): 75,210 mg/l (Flow through) Mortality LC 50 (Goldfish (Carassius auratus), 24 h): > 5,000 mg/l (Static) Mortality LC 50 (Carp (Leuciscus idus melanotus), 48 h): > 10,000 mg/l
	Mortality
formaldehyde%	LC 50 (Morone saxatilis, 96 h): 6.7 mg/l (Static) Experimental result, Key study



methanol	LC 50 (Pimephales promelas, 96 h): 29,400 mg/l (Acute toxicity) LC 50 (Rainbow trout,donaldson trout (Oncorhynchus mykiss), 96 h): 18,000 - 20,000 mg/l (Static) Mortality LC 50 (Rainbow trout,donaldson trout (Oncorhynchus mykiss), 96 h): 19,500 - 20,700 mg/l (Flow through) Mortality LC 50 (Rainbow trout,donaldson trout (Oncorhynchus mykiss), 24 h): 19,800 - 20,700 mg/l (Flow through) Mortality LC 50 (Rainbow trout,donaldson trout (Oncorhynchus mykiss), 48 h): 19,500 - 20,700 mg/l (Flow through) Mortality
Aquatic Invertebrates Product:	The product contains a substance which is toxic to aquatic organisms.
Specified substance(s) 2,2' -oxybisethanol; diethylene glycol	LC 50 (Brine shrimp (Artemia salina), 24 h): > 10,000 mg/l (Static) Mortality EC 50 (Daphnia magna, 24 h): > 10,000 mg/l (Static) Experimental result, Key study
formaldehyde%	EC 50 (Daphnia pulex, 48 h): 5.8 mg/l (Static) Experimental
methanol	result, Key study EC 50 (Daphnia magna, 96 h): 18,260 mg/l (semi-static) Experimental result, Key study
Chronic Toxicity	
Fish	
Product:	No data available.
<b>Specified substance(s)</b> 2,2' -oxybisethanol; diethylene glycol	Not expected to be harmful to aquatic organisms. LC 50 (Menidia peninsulae, 28 d): > 1,500 mg/l (flow-through) Read-across based on grouping of substances (category approach), Weight of Evidence study
formaldehyde%	LC 50 (Danio rerio, 144 h): 6.9 mg/l (semi-static) Experimental
methanol	result, Supporting study LOAEL (Oryzias latipes, 200 h): 7,900 mg/l (Static) Experimental result, Supporting study NOAEL (Oryzias latipes, 200 h): 11,850 mg/l (Static) Experimental result, Supporting study EC 50 (Oryzias latipes, 200 h): 9,164 mg/l (Static) Experimental result, Supporting study



Aquatic Invertebrates Product:	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Specified substance(s)	
2,2' -oxybisethanol; diethylene glycol	EC 50 (Daphnia magna, 21 d): 33,911 mg/l (Static) Read-across based on grouping of substances (category approach), Weight of Evidence study LC 50 (Americamysis bahia, 23 d): > 1,000 mg/l (flow-through) Read-across based on grouping of substances (category approach), Weight of Evidence study IC 25 (Ceriodaphnia dubia, 7 d): 12,310 mg/l (semi-static) Read- across based on grouping of substances (category approach), Weight of Evidence study
formaldehyde%	LOAEL (Ceriodaphnia dubia, 7 d): 6 mg/l Experimental result, Not specified
methanol	NOAEL (Daphnia magna, 21 d): 208 mg/l Estimated by calculation, Weight of Evidence study

### Toxicity to Aquatic Plants Product: No data available.

### **Specified substance(s)**

2,2' -oxybisethanol;	No data available.
diethylene glycol	
formaldehyde%	EC 50 (Green algae (Scenedesmus subspicatus), 72 h): 4.89 mg/l
methanol	No data available.

### **12.2 Persistence and Degradability**

Biodegradation	
Product:	No data available.



2,2' -oxybisethanol; diethylene glycol	(28 d): 25 - 92 % Detected in water. Read-across based on grouping of substances (category approach), Weight of Evidence study
	(28 d): 90 - 100 % Detected in water. Experimental result, Weight of Evidence study
	(10 d): 90 - 100 % Detected in water. Read-across based on grouping of substances (category approach), Weight of Evidence study
	(20 d): 90 - 100 % Detected in water. Read-across based on grouping of substances (category approach), Weight of Evidence study
	(28 d): 90 - 100 % Detected in water. Experimental result, Weight of Evidence study
formaldehyde%	Readily biodegradable
	(2 Weeks): 97 % Detected in water. Experimental result, Key study
methanol	<ul> <li>(3 d): 83 - 91 % Sediment Experimental result, Supporting study</li> <li>97 % Detected in water. Experimental result, Key study</li> <li>(5 d): 71.5 % Detected in water. Experimental result, Key study</li> <li>(5 d): 82.7 % Detected in water. Experimental result, Key study</li> <li>69 % Detected in water. Experimental result, Key study</li> </ul>
BOD/COD Ratio	

### **Product** No data available.

### Specified substance(s)

2,2' -oxybisethanol;	No data available.
diethylene glycol	
formaldehyde%	No data available.
methanol	No data available.

### 12.3 Bioaccumulative potential Product: No data available.

2,2' -oxybisethanol;	Leuciscus idus, Bioconcentration Factor (BCF): 100 Aquatic	
diethylene glycol	sediment Experimental result, Key study	
formaldehyde%	dehyde% Will not bio-accumulate.	
	Bioconcentration Factor (BCF): < 1 Aquatic sediment	
	Experimental result, Weight of Evidence study	



methanol	Leuciscus idus, Bioconcentration Factor (BCF): < 10 Aquatic sediment Experimental result, Supporting study Cyprinus carpio, Bioconcentration Factor (BCF): 4.5 Aquatic sediment Experimental result, Supporting study Cyprinus carpio, Bioconcentration Factor (BCF): 1 Aquatic sediment Experimental result, Supporting study Cyprinus carpio, Bioconcentration Factor (BCF): 3 Aquatic sediment Experimental result, Supporting study Green algae (Chlorella fusca vacuolata), Bioconcentration Factor (BCF): 28,400 (Static)
12.4 Mobility in soil:	
Product:	No data available.
Specified substance(s)	
2,2' -oxybisethanol; diethylene glycol	No data available.
formaldehyde%	No data available.
methanol	No data available.
12.5 Results of PBT and vPv	
Product:	No data available.
Specified substance(s)	
2,2' -oxybisethanol; diethylene glycol	No data available.
formaldehyde%	Not fulfilling PBT
,	(persistent/bioaccumulative/toxic)
	criteria, Not fulfilling vPvB (very
	persistent/very bioaccummulative)
	criteria
methanol	No data available.
12.6 Other adverse effects:	No data available.

## SECTION 13: Disposal considerations

### **13.1 Waste treatment methods**

General information:	This material and its container must be disposed of as hazardous waste.	
Disposal methods:	Dispose of waste at a facility with special permission to dispond industrial wastes subject to special control. Waste should be accompanied by a manifest for the industrial wastes.	
CD		20/25



### SECTION 14: Transport information

### ADR 14.1 UN Number: Not regulated. 14.2 UN Proper Shipping Name: Not regulated. 14.3 Transport Hazard Class(es) Not regulated. Class: Label(s): Not regulated. Hazard No. (ADR): Not regulated. Tunnel restriction code: Not regulated. 14.4 Packing Group: Not regulated. 14.5 Environmental Hazards: Not regulated. Marine Pollutant: Not regulated. 14.6 Special precautions for Not regulated. user: ADN 14.1 UN Number: Not regulated. 14.2 UN Proper Shipping Name: Not regulated. 14.3 Transport Hazard Class(es) Class: Not regulated. Label(s): Not regulated. Hazard No. (ADR): Not regulated. Tunnel restriction code: Not regulated. 14.4 Packing Group: Not regulated. 14.5 Environmental Hazards: Not regulated. Marine Pollutant: Not regulated. 14.6 Special precautions for Not regulated. user:

### RID

14.1 UN Number: 14.2 UN Proper Shipping Name	Not regulated. Not regulated.
14.3 Transport Hazard Class(es) Class: Label(s):	Not regulated. Not regulated.
14.4 Packing Group:	Not regulated.

14.5 Environmental Hazards: Not regulated.



	Marine Pollutant:	Not regulated.
	14.6 Special precautions for user:	Not regulated.
IMI	DG	
	14.1 UN Number: 14.2 UN Proper Shipping Name: 14.3 Transport Hazard Class(es)	Not regulated. Not regulated.
	Class: Label(s): EmS No.:	Not regulated. Not regulated. Not regulated.
	<ul><li>14.4 Packing Group:</li><li>14.5 Environmental Hazards:</li><li>Marine Pollutant:</li></ul>	Not regulated. Not regulated. Not regulated.
	14.6 Special precautions for user:	Not regulated.
ΙΑΤ	A 14.1 UN Number: 14.2 Proper Shipping Name: 14.3 Transport Hazard Class(es):	Not regulated. Not regulated.
	Class: Label(s):	Not regulated. Not regulated.
	14.4 Packing Group: 14.5 Environmental Hazards: Marine Pollutant:	Not regulated. Not regulated. Not regulated.
	14.6 Special precautions for user:	Not regulated.

# **14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code**: Not applicable

### SECTION 15: Regulatory information

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



### **EU Regulations**

Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer: none

Regulation (EC) No. 850/2004 on persistent organic pollutants: none

Regulation (EC) No. 649/2012 Import and export of dangerous chemicals: none

EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC): none

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended:** none

# Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use:

The packaging shall be visibly, legibly and indelibly marked as follows: Restricted to professional users.

Chemical name	CAS-No.	Concentration
Formaldehyde	50-00-0	1.0 - 10%
Methanol	67-56-1	1.0 - 10%

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work.:

Chemical name	CAS-No.	Concentration
formaldehyde%	50-00-0	1.0 - 10%

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.:

Chemical name	CAS-No.	Concentration
formaldehyde%	50-00-0	1.0 - 10%

Directive 96/82/EC (Seveso III): on the control of major accident hazards involving dangerous substances:

Chemical name	CAS-No.	Concentration
formaldehyde%	50-00-0	1.0 - 10%
methanol	67-56-1	1.0 - 10%

EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex



### II: Pollutants: none

### Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work:

Chemical name	CAS-No.	Concentration
2,2' -oxybisethanol; diethylene glycol	111-46-6	30 - 40%
formaldehyde%	50-00-0	1.0 - 10%
methanol	67-56-1	1.0 - 10%

### **15.2 Chemical safety** assessment:

No Chemical Safety Assessment has been carried out.

### **SECTION 16: Other information**

**Revision Information:** Not relevant.

### References

PBT	PBT: persistent, bioaccumulative and toxic substance.
vPvB	vPvB: very persistent and very bioaccumulative substance.

### Key literature references No data available. and sources for data:

### Wording of the H-statements in section 2 and 3

- H225 Highly flammable liquid and vapor.
- H301 Toxic if swallowed.
- Harmful if swallowed. H302
- Toxic in contact with skin. H311
- Harmful in contact with skin. H312
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.
- H332 Harmful if inhaled.
- May cause respiratory irritation. H335
- H341 Suspected of causing genetic defects.
- H350 May cause cancer.
- H370 Causes damage to organs.
- H371 May cause damage to organs.
- H373 May cause damage to organs through prolonged or repeated exposure.



**Training information:** 

No data available.

### Classification according to Regulation (EC) No 1272/2008 as amended.

Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1B, H350 STOT SE 2, H371 STOT SE 3, H335 STOT RE 2, H373

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