



## **MiRXES CoVClear**

### Safety Data Sheets

<b>Kit Components</b>
<b>CvC Positive Control</b>
<b>CvC Negative Control</b>
<b>CvC Reaction Master Mix</b>
<b>CvC Enzyme Mix</b>

# Safety Data Sheet

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## Section 1: Identification

Product Identifier : CvC Positive Control  
Other means of identification : INT0029  
Recommended use and restriction on use : Laboratory chemicals for use only with MiRXES CoVClear

Supplier : MiRXES Pte Ltd  
Address : 2 Tukang Innovation Grove  
JTC MedTech Hub  
#09-02  
Singapore 618305

Phone : +65 6816 2931  
Fax : +65 6816 2930  
Email address : techsupport@mirxes.com  
Emergency contact : +65 6816 2931 (Only operational from 9am to 6pm; weekdays +8 GMT)

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## Section 2: Hazards identification

**GHS Classification** : Not classified according to the Globally Harmonized Systems (GHS)

Flammable liquid : N/A  
Acute Toxicity :  
Oral : N/A  
Dermal : N/A  
Inhalation : N/A  
Skin corrosion/irritation : N/A  
Serious eye damage/irritation : N/A  
Respiratory sensitization : N/A  
Skin sensitization : N/A  
Germ cell mutagenicity : N/A  
Carcinogenicity : N/A  
Reproductive toxicity : N/A  
Specific target organ toxicity (single exposure) : N/A  
Specific target organ toxicity (repeated exposure) : N/A

## GHS label elements including precautionary statements

Pictograms : N/A

## Safety Data Sheet

Signal Word : N/A  
Hazard statements : N/A  
Precautionary statements  
Prevention : N/A  
Response : N/A  
Storage : N/A  
Disposal : N/A  
Other hazards which do not result in classification  
Primary hazards : N/A  
Specific hazards : N/A

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### Section 3: Composition/information on ingredients

#### *CvC Positive Control*

Substance / Mixture : Mixture  
Components : Oligodeoxyribonucleic acid, partially methylated.  
Hazardous substance name : Not a hazardous substance or mixture.  
Synonyms : N/A  
CAS No. : N/A  
EC No. : N/A  
Concentration (% w/w) : N/A

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### Section 4: First aid measures

Inhalation : No information available.  
Skin contact : Remove contaminated clothing. Flush affected area with water and then wash with soap or mild detergent and water. Observe for signs of irritation. If irritation is present, get medical attention.  
Eye contact : Wash eyes with large amounts of water or normal saline for at least 15 minutes.  
Ingestion : Get medical attention.  
Most important symptoms/effects, acute and delayed : No information available.  
Indication of immediate medical attention and special treatment needed, if necessary : No information available.  
Protection of first-aid providers : No information available.

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### Section 5: Fire-fighting measures

Extinguishing media

## Safety Data Sheet

Suitable extinguishing media	:	Dry chemical, foam, carbon dioxide or water.
Unsuitable extinguishing media	:	No information available.
Specific/special hazards arising from the substance/mixture	:	No information available.
Special protective actions/advice for firefighters	:	No special measures needed.
Hazardous combustion products	:	None known to exist.

### Section 6: Accidental release measures

Personal precautions, protective equipment, and emergency measures/procedures	:	Wear personal protective equipment.
Environmental precautions	:	Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.
Methods and materials for containment and cleaning up	:	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust)

### Section 7: Handling and storage

Precautions for safe handling	:	No special measures required.
Conditions for safe storage, including any incompatibilities	:	According to product specifications.

### Section 8: Exposure controls/personal protection

Control parameters/Occupational exposure limits	:	No information available.
Appropriate engineering control measures	:	Use in a laboratory hood or other ventilated device.
Individual protection measures, such as PPE		
Hand protection		
Remarks	:	The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Eye protection	:	Safety glasses.
Skin and body protection	:	Choose body protection according to the amount and concentration of the dangerous substance at the work place. Footwear protecting against chemicals.
Hygiene measures	:	Keep away from food and drink. When using do not eat, drink or smoke.

## Safety Data Sheet

### Section 9: Physical and chemical properties

Appearance physical state	: Liquid
Color	: Colorless
Odor	: Odorless
Odor threshold	: Not determined.

Property	Value	Notes
Melting point	: Not determined.	
Boiling point	: Not determined.	
Flash point	: N/A	
Explosive limit	: 0.9 Vol %	Lower limit
Explosive limit	: Not determined.	Upper limit
Vapor pressure	: 23 hPa (20°C)	
Vapor density	: Not determined.	
Relative density	: Not determined.	
Solubility	: Fully miscible.	
Partition coefficient: n-octanol/water	: Not determined.	
Viscosity	: Not determined.	
Molecular mass	: No information available.	
pH	: 7.8	
Evaporation rate	: Not determined.	
Flammability (solid, gas)	: N/A	
Auto-ignition temperature	: 400°C, not self-igniting.	
Decomposition temperature	: Not determined.	
Oxidizing properties	: No information available.	
Other information	: Solvent content; 57.3% organic solvents, 41.3% Water, 1.3% solids.	

### Section 10: Stability and reactivity

Reactivity	: No adverse reactions have been reported.
Chemical stability	: No decomposition if used according to specifications.
Possibility of hazardous reactions	: No dangerous reactions known.
Conditions to avoid	: No information available.
Incompatible materials	: No information available.
Hazardous decomposition products	: No dangerous decomposition products known.

# Safety Data Sheet

## Section 11: Toxicological information

### Product

Acute toxicity	
Oral	: Possible irritant.
Inhalation	: Possible irritant.
Dermal	: Possible irritant.
Skin corrosion/irritation	: Possible irritant.
Serious eye damage/irritation	: Possible irritant.
Respiratory organ or skin sensitization	: No information available.
Germ cell mutagenicity	: No information available.
Carcinogenicity	: No information available.
Reproductive toxicity	: No information available.
STOT-single exposure	: No information available.
STOT-repeated exposure	: No information available.
Aspiration hazard	: No information available.
Remarks	: N/A

Ingredient: : N/A

Acute toxicity	
Oral	: N/A
Inhalation	: N/A
Dermal	: N/A
Skin corrosion/irritation	: N/A
Serious eye damage/irritation	: N/A
Respiratory organ or skin sensitization	: N/A
Germ cell mutagenicity	: N/A
Carcinogenicity	: N/A
Reproductive toxicity	: N/A
STOT-single exposure	: N/A
STOT-repeated exposure	: N/A
Aspiration hazard	: N/A
Remarks	: N/A

## Section 12: Ecological information

### Toxicity

Fish	: No information available.
Crustacea	: No information available.
Algae	: No information available.

## Safety Data Sheet

Persistence and degradability	:	No information available.
Bioaccumulative potential	:	No information available.
Mobility in soil	:	No information available.
Other adverse effects	:	N/A

### Section 13: Disposal considerations

#### Disposal recommendations

Residual waste	:	Hand over to hazardous waste disposers. Do not dispose of together with household garbage. Do not allow product to reach sewer system.
Contaminated packaging	:	Empty containers should be taken to an approved waste handling site for recycling or disposal.

### Section 14: Transport information

Land (RID/ADR) Not regulated as a dangerous good.

UN Number	:	N/A
Class	:	N/A
Subsidiary risk	:	N/A
Packing group	:	N/A
Proper shipping name	:	N/A
HIN	:	N/A

Sea (IMDG) Not regulated as a dangerous good.

UN Number	:	N/A
Class	:	N/A
Subsidiary risk	:	N/A
Packing group	:	N/A
Proper shipping name	:	N/A
Marine pollutant	:	N/A
Severe marine pollutant	:	N/A

Air (IATA) Not regulated as a dangerous good.

UN Number	:	N/A
Class	:	N/A
Subsidiary risk	:	N/A
Packing group	:	N/A
Proper shipping name	:	N/A

## Safety Data Sheet

Special precautions : N/A

### Section 15: Regulatory information

Applicable national regulations : N/A  
 International regulations : N/A  
 Chemical inventory status  
     Singapore EPMA Second Schedule : N/A  
 Chemical safety assessment : Not determined.  
 Technical instructions (air) : N/A

### Section 16: Other information

#### Abbreviations

ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road  
 CAS : Chemical Abstracts Service  
 COSHH : Control of Substances Hazardous to Health  
 EEC : European Economic Community  
 EPMA : Environmental Protection and Management Act  
 GHS : Globally Harmonized System  
 HIN : Holder Identification Number  
 HSA : Health Sciences Authority  
 IATA : International Air Transport Association  
 IC50 : Half maximal inhibitory concentration  
 IMDG : International Maritime Dangerous Goods  
 ISO : International Organization for Standardization  
 LC50 : Lethal Concentration to 50 % of a test population  
 LD50 : Lethal Dose to 50% of a test population (Median Lethal Dose)  
 MARPOL : International Convention for the Prevention of Pollution from Ships  
 PEL : Permissible Exposure Limit  
 RID : European Agreements Concerning the International Carriage of Dangerous Goods by Rail  
 STOT : Specific Target Organ Toxicity  
 TLV : Threshold Limit Value  
 TWA : Time Weighted Average  
 UN : United Nations  
 WEEL : Workplace Environmental Exposure Limit  
 WEL : Workplace Exposure Limit



## Safety Data Sheet

Revision date : 05-Apr-2021

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

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# Safety Data Sheet

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## Section 1: Identification

Product Identifier : CvC Negative Control  
Other means of identification : INT0110  
Recommended use and restriction on use : Laboratory chemicals for use only with MiRXES CoVClear

Supplier : MiRXES Pte Ltd  
Address : 2 Tukang Innovation Grove  
JTC MedTech Hub  
#09-02  
Singapore 618305

Phone : +65 6816 2931  
Fax : +65 6816 2930  
Email address : techsupport@mirxes.com  
Emergency contact : +65 6816 2931 (Only operational from 9am to 6pm; weekdays +8 GMT)

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## Section 2: Hazards identification

**GHS Classification** : Not classified according to the Globally Harmonized Systems (GHS)

Flammable liquid : N/A  
Acute Toxicity :  
Oral : N/A  
Dermal : N/A  
Inhalation : N/A  
Skin corrosion/irritation : N/A  
Serious eye damage/irritation : N/A  
Respiratory sensitization : N/A  
Skin sensitization : N/A  
Germ cell mutagenicity : N/A  
Carcinogenicity : N/A  
Reproductive toxicity : N/A  
Specific target organ toxicity (single exposure) : N/A  
Specific target organ toxicity (repeated exposure) : N/A

## GHS label elements including precautionary statements

Pictograms : N/A  
Signal Word : N/A

## Safety Data Sheet

Hazard statements	: N/A
Precautionary statements	
Prevention	: N/A
Response	: N/A
Storage	: N/A
Disposal	: N/A
Other hazards which do not result in classification	
Primary hazards	: N/A
Specific hazards	: N/A

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### Section 3: Composition/information on ingredients

#### *CvC Negative Control (INT0110)*

Substance / Mixture	: Substance
Components	: Water
Hazardous substance name	: Not a hazardous substance or mixture.
Synonyms	: N/A
CAS No.	: 7732-18-5
EC No.	: 231-791-2
Concentration (% w/w)	: N/A

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### Section 4: First aid measures

Inhalation	: Supply fresh air; consult doctor in case of complaints.
Skin contact	: Generally, the product does not irritate the skin.
Eye contact	: Rinse opened eye for several minutes under running water.
Ingestion	: Induce vomiting and call for medical help.
Most important symptoms/effects, acute and delayed	: No information available.
Indication of immediate medical attention and special treatment needed, if necessary	: No information available.
Protection of first-aid providers	: No information available.

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### Section 5: Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Unsuitable extinguishing media	: No information available.

# Safety Data Sheet

Specific/special hazards arising from the substance/mixture : No information available.

Special protective actions/advice for firefighters : No special measures needed.

Hazardous combustion products : No information available.

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## Section 6: Accidental release measures

Personal precautions, protective equipment, and emergency measures/procedures : Wear personal protective equipment.

Environmental precautions : Dilute with plenty of water.

Methods and materials for containment and cleaning up : Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust)

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## Section 7: Handling and storage

Precautions for safe handling : No special measures required.

Conditions for safe storage, including any incompatibilities : According to product specifications.

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## Section 8: Exposure controls/personal protection

Control parameters/Occupational exposure limits : No information available.

Appropriate engineering control measures : No information available.

Individual protection measures, such as PPE

Hand protection

Remarks : The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Eye protection

: Safety glasses.

Skin and body protection

: Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Footwear protecting against chemicals.

Hygiene measures

: Keep away from food and drink.

When using do not eat, drink or smoke.

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## Section 9: Physical and chemical properties

## Safety Data Sheet

Appearance physical state : Liquid  
 Color : Colorless  
 Odor : Odorless  
 Odor threshold : No information available.

Property	Value	Notes
Melting point	: 0°C	
Boiling point	: 100°C	
Flash point	: N/A	
Explosive limit	: Not determined.	Lower limit
Explosive limit	: Not determined.	Upper limit
Vapor pressure	: 23 hPa (20°C)	
Vapor density	: Not determined.	
Relative density	: 1g/cm3	
Solubility	: Fully miscible.	
Partition coefficient: n-octanol/water	: Not determined.	
Viscosity	: Not determined.	
Molecular mass	: No information available.	
pH	: 7	
Evaporation rate	: Not determined.	
Flammability (solid, gas)	: N/A	
Auto-ignition temperature	: No information available.	
Decomposition temperature	: Not determined.	
Oxidizing properties	: No information available.	
Other information	: N/A	

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### Section 10: Stability and reactivity

Reactivity : No information available.  
 Chemical stability : No decomposition if used according to specifications.  
 Possibility of hazardous reactions : No dangerous reactions known.  
 Conditions to avoid : No information available.  
 Incompatible materials : No information available.  
 Hazardous decomposition products : No dangerous decomposition products known.

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### Section 11: Toxicological information

Product  
 Acute toxicity

## Safety Data Sheet

Oral	: No information available.
Inhalation	: No information available.
Dermal	: No information available.
Skin corrosion/irritation	: No sensitizing effects.
Serious eye damage/irritation	: No effect.
Respiratory organ or skin sensitization	: No sensitizing effects.
Germ cell mutagenicity	: No information available.
Carcinogenicity	: No information available.
Reproductive toxicity	: No information available.
STOT-single exposure	: No information available.
STOT-repeated exposure	: No information available.
Aspiration hazard	: No information available.
Remarks	: N/A

Ingredient:	: N/A
Acute toxicity	
Oral	: N/A
Inhalation	: N/A
Dermal	: N/A
Skin corrosion/irritation	: N/A
Serious eye damage/irritation	: N/A
Respiratory organ or skin sensitization	: N/A
Germ cell mutagenicity	: N/A
Carcinogenicity	: N/A
Reproductive toxicity	: N/A
STOT-single exposure	: N/A
STOT-repeated exposure	: N/A
Aspiration hazard	: N/A
Remarks	: N/A

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### Section 12: Ecological information

Toxicity	
Fish	: No information available.
Crustacea	: No information available.
Algae	: No information available.
Persistence and degradability	: No information available.
Bioaccumulative potential	: No information available.
Mobility in soil	: No information available.
Other adverse effects	: No information available.

# Safety Data Sheet

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## Section 13: Disposal considerations

### Disposal recommendations

- Residual waste : Hand over to hazardous waste disposers.  
Do not dispose of together with household garbage.  
Do not allow product to reach sewer system.
- Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

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## Section 14: Transport information

Land (RID/ADR) Not regulated as a dangerous good.

- UN Number : N/A  
Class : N/A  
Subsidiary risk : N/A  
Packing group : N/A  
Proper shipping name : N/A  
HIN : N/A

Sea (IMDG) Not regulated as a dangerous good.

- UN Number : N/A  
Class : N/A  
Subsidiary risk : N/A  
Packing group : N/A  
Proper shipping name : N/A  
Marine pollutant : N/A  
Severe marine pollutant : N/A

Air (IATA) Not regulated as a dangerous good.

- UN Number : N/A  
Class : N/A  
Subsidiary risk : N/A  
Packing group : N/A  
Proper shipping name : N/A

Special precautions : N/A

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## Section 15: Regulatory information

# Safety Data Sheet

Applicable national regulations	: N/A
International regulations	: N/A
Chemical inventory status	
Singapore EPMA Second Schedule	: N/A
Chemical safety assessment	: N/A
Technical instructions (air)	: N/A

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## Section 16: Other information

### Abbreviations

ADR	: European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS	: Chemical Abstracts Service
COSHH	: Control of Substances Hazardous to Health
EEC	: European Economic Community
EPMA	: Environmental Protection and Management Act
GHS	: Globally Harmonized System
HIN	: Holder Identification Number
HSA	: Health Sciences Authority
IATA	: International Air Transport Association
IC50	: Half maximal inhibitory concentration
IMDG	: International Maritime Dangerous Goods
ISO	: International Organization for Standardization
LC50	: Lethal Concentration to 50 % of a test population
LD50	: Lethal Dose to 50% of a test population (Median Lethal Dose)
MARPOL	: International Convention for the Prevention of Pollution from Ships
PEL	: Permissible Exposure Limit
RID	: European Agreements Concerning the International Carriage of Dangerous Goods by Rail
STOT	: Specific Target Organ Toxicity
TLV	: Threshold Limit Value
TWA	: Time Weighted Average
UN	: United Nations
WEEL	: Workplace Environmental Exposure Limit
WEL	: Workplace Exposure Limit

Revision date : 05-Apr-2021

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## Safety Data Sheet

and release and is not to be considered 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 materials or in any process, unless specified in the text.

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# Safety Data Sheet

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**Section 1: Identification**

Product Identifier	: CvC Reaction Master Mix
Other means of identification	: INT0031
Recommended use and restriction on use	: Laboratory chemicals for use only with MiRXES CoVClear
Supplier	: MiRXES Pte Ltd
Address	: 2 Tukang Innovation Grove JTC MedTech Hub #09-02 Singapore 618305
Phone	: +65 6816 2931
Fax	: +65 6816 2930
Email address	: techsupport@mirxes.com
Emergency contact	: +65 6816 2931 (Only operational from 9am to 6pm; weekdays +8 GMT)

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**Section 2: Hazards identification**

<b>GHS Classification</b>	Not classified according to the Globally Harmonized Systems (GHS)
Flammable liquid	: N/A
Acute Toxicity	
Oral	: May be harmful if swallowed.
Dermal	: May cause skin and eye irritation.
Inhalation	: May be harmful by inhalation.
Skin corrosion/irritation	: May cause skin irritation.
Serious eye damage/irritation	: May cause serious eye irritation
Respiratory sensitization	: N/A
Skin sensitization	: N/A
Germ cell mutagenicity	: N/A
Carcinogenicity	: N/A
Reproductive toxicity	: N/A
Specific target organ toxicity (single exposure)	: N/A
Specific target organ toxicity (repeated exposure)	: N/A

**GHS label elements including precautionary statements**

Pictograms	: N/A
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## Safety Data Sheet

Signal Word : N/A  
 Hazard statements : N/A  
 Precautionary statements  
 Prevention : N/A  
 Response : N/A  
 Storage : N/A  
 Disposal : N/A  
 Other hazards which do not result in classification  
 Primary hazards : N/A  
 Specific hazards : N/A

### Section 3: Composition/information on ingredients

*CvC Reaction Master Mix (INT0031)*

Substance / Mixture	: Mixture					
Components	Hazardous substance name	Synonyms	CAS No.	EC No.	Concentration (% w/w)	
	Glycerol	N/A	56-81-5	200-289-5	28-56%	
	Trometamol		77-86-1	201-064-4	< 6%	
	Oligodeoxyribonucleic acid, partially methylated	N/A	N/A	N/A	N/A	
	Oligodeoxyribonucleic acid, unmodified					

### Section 4: First aid measures

Inhalation : Supply fresh air; consult doctor in case of complaints.  
 Skin contact : Rinse cautiously with water and soap for at least 15 minutes; if symptoms occur, obtain medical advice.  
 Remove contaminated, saturated clothing immediately.  
 In case of skin reactions, consult a physician  
 Eye contact : Rinse opened eye for several minutes under running water.  
 Ingestion : Do not induce vomiting without medical advice.  
 If accidentally swallowed, rinse mouth with plenty of water (if the person is conscious) and consult a physician immediately.  
 Never give anything by mouth to an unconscious person, if symptoms persist, consult a physician.  
 Most important symptoms/effects, acute and delayed : No information available.

## Safety Data Sheet

Indication of immediate medical attention and: Treatment: The first aid procedure should be established in consultation with the  
special treatment needed, if necessary doctor responsible for industrial medicine.

Protection of first-aid providers : Treat symptomatically.

### Section 5: Fire-fighting measures

#### Extinguishing media

Suitable extinguishing media : CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Unsuitable extinguishing media : No information available.

Specific/special hazards arising from the substance/mixture : Hydrogen chloride gas

Special protective actions/advice for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.  
Standard procedure for chemical fires.  
Use extinguishing measure that are appropriate to local circumstances and the surrounding environment.

In event of fire and/or explosion, do not breathe fumes.

Hazardous combustion products : Nitrogen oxides, sodium oxides, carbon oxides, sulphur oxides.

### Section 6: Accidental release measures

Personal precautions, protective equipment, and emergency measures/procedures : Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Dilute with plenty of water.  
Ensure that waste is collected and contained.  
Contain spills or leaks within cabinets with removable trays.  
Do not allow to enter sewers/ surface or ground water.  
Prevent further leakage or spillage if safe to do so.  
Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up : Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust)  
Wipe up with inert, absorbent material.  
Keep in suitable, closed containers for disposal.

### Section 7: Handling and storage

Precautions for safe handling : For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Normal measure for preventive fire protection.

Conditions for safe storage, including any incompatibilities : Keep in a dry, cool and well-ventilated place.

# Safety Data Sheet

Keep container tightly closed and in an upright position in order to prevent leakage.

## Section 8: Exposure controls/personal protection

Control parameters/Occupational exposure limits : Hydrochloric acid; PEL (SG) Short term = 5 ppm; 7.5 mg/m<sup>3</sup>

Sodium hydroxide; PEL (SG) Short term = 2 mg/m<sup>3</sup>

Appropriate engineering control measures : Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as PPE

Hand protection

Remarks : The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Eye protection

: Safety glasses.

Skin and body protection

: Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Footwear protecting against chemicals.

No respiratory protective equipment normally required.

Hygiene measures

: Keep away from food and drink.

Wash hands before breaks and at the end of workday.

Avoid contact with the skin and the eyes.

When using do not eat, drink or smoke.

## Section 9: Physical and chemical properties

Appearance physical state : Liquid

Color : Slight purple

Odor : Odorless

Odor threshold : Not determined.

Property	Value	Notes
Melting point	: Not determined.	
Boiling point	: Not determined.	
Flash point	: N/A	
Explosive limit	: Not determined.	Lower limit
Explosive limit	: Not determined.	Upper limit
Vapor pressure	: 23 hPa (20°C)	
Vapor density	: Not determined.	
Relative density	: Not determined.	

## Safety Data Sheet

Solubility	: Fully miscible.
Partition coefficient: n-octanol/water	: Not determined.
Viscosity	: Not determined.
Molecular mass	: Not determined.
pH	: Not determined.
Evaporation rate	: Not determined.
Flammability (solid, gas)	: Not determined.
Auto-ignition temperature	: 400°C, not self-igniting.
Decomposition temperature	: Not determined.
Oxidizing properties	: Not determined.
Other information	: No information available.

### Section 10: Stability and reactivity

Reactivity	: No adverse reactions have been reported.
Chemical stability	: No decomposition if used according to specifications.
Possibility of hazardous reactions	: No dangerous reactions known.
Conditions to avoid	: No information available.
Incompatible materials	: No information available.
Hazardous decomposition products	: No dangerous decomposition products known.

### Section 11: Toxicological information

#### Product

Acute toxicity	
Oral	: Possible irritant.
Inhalation	: Possible irritant.
Dermal	: Possible irritant.
Skin corrosion/irritation	: Possible irritant.
Serious eye damage/irritation	: Possible irritant.
Respiratory organ or skin sensitization	: No information available.
Germ cell mutagenicity	: No information available.
Carcinogenicity	: No information available.
Reproductive toxicity	: No information available.
STOT-single exposure	: No information available.
STOT-repeated exposure	: No information available.
Aspiration hazard	: No information available.
Remarks	: N/A

## Safety Data Sheet

Ingredient:	:	N/A
Acute toxicity		
Oral	:	N/A
Inhalation	:	N/A
Dermal	:	N/A
Skin corrosion/irritation	:	N/A
Serious eye damage/irritation	:	N/A
Respiratory organ or skin sensitization	:	N/A
Germ cell mutagenicity	:	N/A
Carcinogenicity	:	N/A
Reproductive toxicity	:	N/A
STOT-single exposure	:	N/A
STOT-repeated exposure	:	N/A
Aspiration hazard	:	N/A
Remarks	:	N/A

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### Section 12: Ecological information

Toxicity		
Fish	:	No information available.
Crustacea	:	No information available.
Algae	:	No information available.
Persistence and degradability	:	No information available.
Bioaccumulative potential	:	No information available.
Mobility in soil	:	No information available.
Other adverse effects	:	No information available.

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### Section 13: Disposal considerations

Disposal recommendations		
Residual waste	:	Dispose in compliance with local regulations.
Contaminated packaging	:	Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

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### Section 14: Transport information

Land (RID/ADR)		Not regulated as a dangerous good.
UN Number	:	N/A

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Class : N/A  
 Subsidiary risk : N/A  
 Packing group : N/A  
 Proper shipping name : N/A  
 HIN : N/A

Sea (IMDG) Not regulated as a dangerous good.

UN Number : N/A  
 Class : N/A  
 Subsidiary risk : N/A  
 Packing group : N/A  
 Proper shipping name : N/A  
 Marine pollutant : N/A  
 Severe marine pollutant : N/A

Air (IATA) Not regulated as a dangerous good.

UN Number : N/A  
 Class : N/A  
 Subsidiary risk : N/A  
 Packing group : N/A  
 Proper shipping name : N/A

Special precautions : N/A

### Section 15: Regulatory information

Applicable national regulations : N/A  
 International regulations : N/A  
 Chemical inventory status  
 Singapore EPMA Second Schedule : N/A  
 Chemical safety assessment : N/A  
 Technical instructions (air) : N/A

### Section 16: Other information

#### Abbreviations

ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road  
 CAS : Chemical Abstracts Service  
 COSHH : Control of Substances Hazardous to Health



## Safety Data Sheet

EEC	: European Economic Community
EPMA	: Environmental Protection and Management Act
GHS	: Globally Harmonized System
HIN	: Holder Identification Number
HSA	: Health Sciences Authority
IATA	: International Air Transport Association
IC50	: Half maximal inhibitory concentration
IMDG	: International Maritime Dangerous Goods
ISO	: International Organization for Standardization
LC50	: Lethal Concentration to 50 % of a test population
LD50	: Lethal Dose to 50% of a test population (Median Lethal Dose)
MARPOL	: International Convention for the Prevention of Pollution from Ships
PEL	: Permissible Exposure Limit
RID	: European Agreements Concerning the International Carriage of Dangerous Goods by Rail
STOT	: Specific Target Organ Toxicity
TLV	: Threshold Limit Value
TWA	: Time Weighted Average
UN	: United Nations
WEEL	: Workplace Environmental Exposure Limit
WEL	: Workplace Exposure Limit

Revision date : 05-Apr-2021

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# Safety Data Sheet

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## Section 1: Identification

Product Identifier : CvC Enzyme Mix  
Other means of identification : INT0032  
Recommended use and restriction on use : Laboratory chemicals for use only with MiRXES CoVClear

Supplier : MiRXES Pte Ltd  
Address : 2 Tukang Innovation Grove  
JTC MedTech Hub  
#09-02  
Singapore 618305

Phone : +65 6816 2931  
Fax : +65 6816 2930  
Email address : techsupport@mirxes.com  
Emergency contact : +65 6816 2931 (Only operational from 9am to 6pm; weekdays +8 GMT)

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## Section 2: Hazards identification

**GHS Classification** : Not classified according to the Globally Harmonized Systems (GHS)

Flammable liquid : N/A  
Acute Toxicity :  
Oral : N/A  
Dermal : N/A  
Inhalation : N/A  
Skin corrosion/irritation : N/A  
Serious eye damage/irritation : N/A  
Respiratory sensitization : N/A  
Skin sensitization : N/A  
Germ cell mutagenicity : N/A  
Carcinogenicity : N/A  
Reproductive toxicity : N/A  
Specific target organ toxicity (single exposure) : N/A  
Specific target organ toxicity (repeated exposure) : N/A

## GHS label elements including precautionary statements

Pictograms : N/A

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Signal Word : N/A  
 Hazard statements : N/A  
 Precautionary statements  
 Prevention : N/A  
 Response : N/A  
 Storage : N/A  
 Disposal : N/A  
 Other hazards which do not result in classification  
 Primary hazards : N/A  
 Specific hazards : N/A

### Section 3: Composition/information on ingredients

*CvC Enzyme Mix (INT0032)*

Substance / Mixture	:	Mixture				
Components	:	Hazardous substance name	Synonyms	CAS No.	EC No.	Concentration (% w/w)
		Glycerol	N/A	56-81-5	200-289-5	28-56%
		Trometamol		77-86-1	201-064-4	< 6%

### Section 4: First aid measures

Inhalation : Supply fresh air; consult doctor in case of complaints.  
 Skin contact : Generally, the product does not irritate the skin.  
 Eye contact : Rinse opened eye for several minutes under running water.  
 Ingestion : Induce vomiting and call for medical help.  
 Most important symptoms/effects, acute and delayed : No information available.  
 Indication of immediate medical attention and special treatment needed, if necessary : No information available.  
 Protection of first-aid providers : No information available.

### Section 5: Fire-fighting measures

Extinguishing media

Suitable extinguishing media : CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.  
 Unsuitable extinguishing media : No information available.

## Safety Data Sheet

- Specific/special hazards arising from the substance/mixture : Formation of toxic gases is possible during heating or in case of fire.
- Special protective actions/advice for firefighters : Wear self-contained respiratory protective device.
- Hazardous combustion products : No information available.

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### Section 6: Accidental release measures

- Personal precautions, protective equipment, and emergency measures/procedures : Wear personal protective equipment.
- Environmental precautions : Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- Methods and materials for containment and cleaning up : Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust)

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### Section 7: Handling and storage

- Precautions for safe handling : Store in cool, dry place in tightly closed receptacles.
- Conditions for safe storage, including any incompatibilities : According to product specifications. Keep container in a well-ventilated place. Keep away from sources of ignition and heat.

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### Section 8: Exposure controls/personal protection

- Control parameters/Occupational exposure limits : Glycerol; PEL (USA) = 15 mg/m<sup>3</sup> total dust, 5 mg/m<sup>3</sup> respirable fraction.  
Glycerol; TLV (USA) = 10 ppm mist.  
Glycerol; MAK (Germany (German)) = 50E mg/m<sup>3</sup>, vgl.Abschn.Xc
- Appropriate engineering control measures : No information available.
- Individual protection measures, such as PPE
- Hand protection
- Remarks : The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
- Eye protection : Safety glasses.
- Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
Footwear protecting against chemicals.
- Hygiene measures : Keep away from food and drink.  
Wash hands before breaks and at the end of workday.  
Avoid contact with the skin and the eyes.

# Safety Data Sheet

When using do not eat, drink or smoke.

## Section 9: Physical and chemical properties

Appearance physical state	: Liquid
Color	: Colorless
Odor	: Odorless
Odor threshold	: Not determined.

Property	Value	Notes
Melting point	: Not determined.	
Boiling point	: Not determined.	
Flash point	: >100°C	
Explosive limit	: 0.9 Vol %	Lower limit
Explosive limit	: 0.0 Vol %	Upper limit
Vapor pressure	: 0.1 hPa	
Vapor density	: Not determined.	
Relative density	: Not determined.	
Solubility	: Water: Not miscible or difficult to mix.	
Partition coefficient: n-octanol/water	: Not determined.	
Viscosity	: Not determined.	
Molecular mass	: Not determined.	
pH	: Not determined.	
Evaporation rate	: Not determined.	
Flammability (solid, gas)	: N/A	
Auto-ignition temperature	: 400°C, not self-igniting.	
Decomposition temperature	: Not determined.	
Oxidizing properties	: No information available.	
Other information	: N/A	

## Section 10: Stability and reactivity

Reactivity	: Stable under normal conditions.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reactions known.
Conditions to avoid	: Heat.
Incompatible materials	: Strong oxidizing agents.
Hazardous decomposition products	: Formation of toxic gases is possible during heating or in case of fire.

# Safety Data Sheet

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## Section 11: Toxicological information

### Product

Acute toxicity	
Oral	: No information available.
Inhalation	: No information available.
Dermal	: No information available.
Skin corrosion/irritation	: No irritating effects known.
Serious eye damage/irritation	: Irritating effect.
Respiratory organ or skin sensitization	: No sensitizing effects known.
Germ cell mutagenicity	: No information available.
Carcinogenicity	: No information available.
Reproductive toxicity	: No information available.
STOT-single exposure	: No information available.
STOT-repeated exposure	: No information available.
Aspiration hazard	: No information available.
Remarks	: N/A

Ingredient: : KlearTaq

Acute toxicity	
Oral	: N/A
Inhalation	: N/A
Dermal	: N/A
Skin corrosion/irritation	: No irritating effects known.
Serious eye damage/irritation	: No irritating effects known.
Respiratory organ or skin sensitization	: No sensitizing effects known.
Germ cell mutagenicity	: N/A
Carcinogenicity	: N/A
Reproductive toxicity	: N/A
STOT-single exposure	: N/A
STOT-repeated exposure	: N/A
Aspiration hazard	: N/A
Remarks	: The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:  When used and handled according to specifications, the product does not have any harmful effects according to supplier's experience and the information provided to them.

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## Section 12: Ecological information

## Safety Data Sheet

Toxicity	
Fish	: No information available.
Crustacea	: No information available.
Algae	: No information available.
Persistence and degradability	: No information available.
Bioaccumulative potential	: No information available.
Mobility in soil	: No information available.
Other adverse effects	: Water hazard class 1 (German Regulation) (Self-assessment (by supplier)): Slightly hazardous for water.  Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### Section 13: Disposal considerations

Disposal recommendations	
Residual waste	: Hand over to hazardous waste disposers. Do not dispose of together with household garbage. Do not allow product to reach sewer system.
Contaminated packaging	: Empty containers should be taken to an approved waste handling site for recycling or disposal.

### Section 14: Transport information

Land (RID/ADR)	Not regulated as a dangerous good.
UN Number	: N/A
Class	: N/A
Subsidiary risk	: N/A
Packing group	: N/A
Proper shipping name	: N/A
HIN	: N/A
Sea (IMDG)	Not regulated as a dangerous good.
UN Number	: N/A
Class	: N/A
Subsidiary risk	: N/A
Packing group	: N/A
Proper shipping name	: N/A
Marine pollutant	: N/A
Severe marine pollutant	: N/A

## Safety Data Sheet

Air (IATA)	: Not regulated as a dangerous good.
UN Number	: N/A
Class	: N/A
Subsidiary risk	: N/A
Packing group	: N/A
Proper shipping name	: N/A
Special precautions	: N/A

### Section 15: Regulatory information

Applicable national regulations	: N/A
International regulations	: N/A
Chemical inventory status	
Singapore EPMA Second Schedule	: N/A
Chemical safety assessment	: Not determined.
Technical instructions (air)	: N/A

### Section 16: Other information

#### Abbreviations

ADR	: European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS	: Chemical Abstracts Service
COSHH	: Control of Substances Hazardous to Health
EEC	: European Economic Community
EPMA	: Environmental Protection and Management Act
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