



MiRXES Fortitude Kit 3.0

Safety Data Sheets

Kit Components
Nuclease Free Water
Positive Control 3.0
Negative Control
Universal Probe Reaction Mix
Reverse Transcriptase
Primers-Probes Mix 3.0

Safety Data Sheet

Section 1: Identification

Product Identifier	:	Nuclease Free Water
Other means of identification	:	INT0105
Recommended use and restriction on use	:	Laboratory chemicals for use only with MiRXES Fortitude Kit 3.0
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	:	fortitude@mirxes.com
Emergency contact	:	+65 6816 2931 (Only operational from 9am to 6pm; weekdays +8 GMT)

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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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

Nuclease Free Water (INT0105)

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

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 ₂ , extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Safety Data Sheet

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	: No information available.

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)

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	: 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.

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/cm ³	
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	

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.

Section 11: Toxicological information

Product

Safety Data Sheet

Acute toxicity		
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

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.

Safety Data Sheet

Other adverse effects : No information available.

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

Safety Data Sheet

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
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 : 08-Jan-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

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.

Safety Data Sheet

Section 1: Identification

Product Identifier	:	Positive Control 3.0
Other means of identification	:	INT0100
Recommended use and restriction on use	:	Laboratory chemicals for use only with MiRXES Fortitude Kit 3.0
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	:	fortitude@mirxes.com
Emergency contact	:	+65 6816 2931 (Only operational from 9am to 6pm; weekdays +8 GMT)

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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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

Positive Control 3.0 (INT0100)

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

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.

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 : 08-Jan-2021

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Safety Data Sheet

Section 1: Identification

Product Identifier	:	Negative Control
Other means of identification	:	INT0101
Recommended use and restriction on use	:	Laboratory chemicals for use only with MiRXES Fortitude Kit 3.0
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	:	fortitude@mirxes.com
Emergency contact	:	+65 6816 2931 (Only operational from 9am to 6pm; weekdays +8 GMT)

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

Section 3: Composition/information on ingredients

Negative Control (INT0101)

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

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 : No information available.
delayed

Indication of immediate medical attention and : No information available.
special treatment needed, if necessary

Protection of first-aid providers : No information available.

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.

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)

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 : 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.

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/cm ³	
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	

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.

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

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

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

Special precautions : N/A

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

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 : 08-Jan-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.

Safety Data Sheet

Section 1: Identification

Product Identifier	:	Universal Probe Reaction Mix
Other means of identification	:	INT0102
Recommended use and restriction on use	:	Laboratory chemicals for use only with MiRXES Fortitude Kit 3.0
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	:	fortitude@mirxes.com
Emergency contact	:	+65 6816 2931 (Only operational from 9am to 6pm; weekdays +8 GMT)

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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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

Universal Probe Reaction Mix (INT0102)

Substance / Mixture	:	Mixture
Components	:	Dimethyl sulfoxide
Hazardous substance name	:	Not a hazardous substance or mixture.
Synonyms	:	DMSO
CAS No.	:	67-68-5
EC No.	:	200-664-3
Concentration (% w/w)	:	1,0 – 2,5

Section 4: First aid measures

Inhalation	:	Supply fresh air; consult doctor in case of complaints.
Skin contact	:	No information available.
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 ₂ , extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Safety Data Sheet

- 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 : No information available.

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 : Dimethyl sulfoxide; WEEL (USA) Long-term value = 250 ppm
Dimethyl sulfoxide; MAK (Germany (German)) Long-term value = 260mg/m³, 50 ppm
- 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.

Safety Data Sheet

Section 9: Physical and chemical properties

Appearance physical state	: Liquid
Color	: Pink
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; 24.6% organic solvents, 72.7% Water, 2.7% solids.	

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.

Safety Data Sheet

Section 11: Toxicological information

Product

Acute toxicity	
Oral	: No information available.
Inhalation	: No information available.
Dermal	: No information available.
Skin corrosion/irritation	: No sensitizing effects.
Serious eye damage/irritation	: Irritating 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	: 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

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

Safety Data Sheet

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

Air (IATA) Not regulated as a dangerous good.

UN Number	:	N/A
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Safety Data Sheet

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)	: Class NK; 20-35 share in %.

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

Safety Data Sheet

TWA : Time Weighted Average
UN : United Nations
WEEL : Workplace Environmental Exposure Limit
WEL : Workplace Exposure Limit

Revision date : 08-Jan-2021

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Safety Data Sheet

Section 1: Identification

Product Identifier	:	Reverse Transcriptase
Other means of identification	:	INT0103
Recommended use and restriction on use	:	Laboratory chemicals for use only with MiRXES Fortitude Kit 3.0
Supplier	:	MiRXES Pte Ltd
Address	:	2 Tugan Innovation Grove JTC MedTech Hub #09-02 Singapore 618305
Phone	:	+65 6816 2931
Fax	:	+65 6816 2930
Email address	:	fortitude@mirxes.com
Emergency contact	:	+65 6816 2931 (Only operational from 9am to 6pm; weekdays +8 GMT)

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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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

Reverse Transcriptase (INT0103)

Substance / Mixture	:	Mixture
Components	:	Glycerol
Hazardous substance name	:	Not a hazardous substance or mixture.
Synonyms	:	N/A
CAS No.	:	56-81-5
EC No.	:	200-289-5
Concentration (% w/w)	:	50-100

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 ₂ , extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Safety Data Sheet

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 : No information available.

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 : Glycerol; PEL (USA) = 15 mg/m³ total dust, 5 mg/m³ respirable fraction.
Glycerol; TLV (USA) = 10 ppm mist.
Glycerol; MAK (Germany (German)) = 50E mg/m³, 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.
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 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.

Safety Data Sheet

Section 11: Toxicological information

Product

Acute toxicity	
Oral	: No information available.
Inhalation	: No information available.
Dermal	: No information available.
Skin corrosion/irritation	: No sensitizing effects.
Serious eye damage/irritation	: Irritating 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	: 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

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

Safety Data Sheet

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

Air (IATA) Not regulated as a dangerous good.

UN Number	:	N/A
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Safety Data Sheet

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)	: Class NK; 50-100 share in %.

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

Safety Data Sheet

TWA : Time Weighted Average
UN : United Nations
WEEL : Workplace Environmental Exposure Limit
WEL : Workplace Exposure Limit

Revision date : 08-Jan-2021

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Safety Data Sheet

Section 1: Identification

Product Identifier	:	Primers – Probes Mix 3.0
Other means of identification	:	INT0104
Recommended use and restriction on use	:	Laboratory chemicals for use only with MiRXES Fortitude Kit 3.0
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	:	fortitude@mirxes.com
Emergency contact	:	+65 6816 2931 (Only operational from 9am to 6pm; weekdays +8 GMT)

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

Section 3: Composition/information on ingredients

Primers – Probes Mix 3.0 (INT0104)

Substance / Mixture	:	Mixture
Components	:	Oligodeoxyribonucleic acid, partially methylated. Oligodeoxyribonucleic acid, unmodified
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

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.

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	: Purple
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

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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.
