

Applied BioCode	TITLE: Safety Data Sheet: BioCode Respiratory Pathogen Panel			
	DOCUMENT NO: SPC-0473	DOCUMENT CATEGORY: SDS	REVISION: 01	EFFECTIVE DATE: 4/2/2019


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Revision History

Revision	Details	Effective Date
01	Initial Release	4/2/2019

Reference

No records to display.


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Product: BioCode Respiratory Pathogen Panel
Product Code: 63-R0001

Kit Components

Product Code	Description
24M0001	BioCode Master Mix A
24R0005	BioCode RT Mix
14R0001	BioCode RPP Primer Mix
44-R0001	BioCode RPP BMB-Probe Mix
43-R0001	BioCode RNA-IC2

Current

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1 Product and Company Identification

Product identifier

Trade name: **BioCode Master Mix A**

Product Code: 24M0001

Application of the substance / the mixture: Laboratory chemicals

Details of the supplier of the safety data sheet Manufacturer/Supplier:

Applied Biocode Inc.

10020 Pioneer Blvd. Suite 105 Santa Fe Springs, CA 90670

1-833-246-2633 or (562)-801-0050

Emergency telephone number:

For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident

Call 1-833-262-8324

2. Hazard(s) Identification

Classification of the substance or mixture

The product is not classified as hazardous according to the Globally Harmonized System (GHS).

Label elements

GHS label elements Void

Hazard pictograms Void

Signal word Void

Hazard statements Void

Classification system:

NFPA ratings (scale 0 - 4)

Health = 0

Fire = 0

Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = 0

Fire = 0

Reactivity = 0

OSHA Hazard Overview (Criteria according to 29CFR1910.1200): Not applicable

Target Organ(s): Not applicable or unknown

Other hazards:

This mixture has not been tested to determine the overall health hazard; therefore in accordance with 29CFR1910.1200, the data reported above pertains to the hazardous ingredients of this mixture.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable

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3 Composition/information on ingredients

Chemical characterization: Mixtures

Description:

The product is a mixture of the hazardous substances listed below along with unlisted nonhazardous substances. The exact concentration percentages of the hazardous substances may be withheld as an Applied BioCode trade secret.

CAS	Description	Content
56-81-5	glycerol	1-5%
77-86-1	2-Amino-2-(hydroxymethyl)-1,3-propanediol	<2%

Additional information: For the wording of the listed risk phrases refer to section 15

4. First aid measures

General information: No special measures required.

After inhalation: If the patient feels unwell or is concerned, obtain medical advice.

After skin contact: Generally the product does not irritate the skin.

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: If the patient feels unwell or is concerned, obtain medical advice.

Information for doctor:

Most important symptoms and effects, both acute and delayed: None

Indication of any immediate medical attention and special treatment needed: No further relevant information available.

5. Fire-fighting measures

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

Special hazards arising from the substance or mixture: None known

Advice for firefighters: No special advice

Protective equipment: No special measures required.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Not required.

Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Reference to other sections

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 13 for disposal information.

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7. Handling and storage

Handling:

Precautions for safe handling: No special measures required.

Information about protection against explosions and fires: The product is not flammable.

Storage:

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: None.

Specific end use(s): No further relevant information available.

8. Exposure controls/personal protection

Components with limit values that require monitoring at the workplace:	
57-50-1 sucrose, pure	
PEL	Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction
TLV	Insufficient data

General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed.

Breathing equipment: Not required.

Protection of hands: Not required.

Material of gloves: The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

9. Physical and chemical properties

Form:	Fluid
Color:	Colorless
Odor:	Not determined
Odor threshold:	Not determined
pH value at 30°C:	8.5
Melting point/range:	Not determined
Boiling point/range:	100°C (212°F)
Flash point (solid or gas):	Not applicable
Flammability:	Not applicable
Ignition temperature:	Not determined
Decomposition temperature:	Not determined
Auto igniting:	Not applicable

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Danger of explosion:	Product does not present an explosion hazard
Vapor pressure:	Not determined
Density:	Not determined
Relative density:	Not determined
Vapor density:	Not determined
Evaporation rate:	Not determined
Solubility in /Miscibility with water:	Fully miscible
Partition coefficient:	Not determined
Viscosity:	Not determined
Dynamic:	Not determined
Kinematic	Not determined
Organic solvents:	4.8%
Water:	89.9%
VOC content:	0.0%
Other information:	No further information

10 Stability and reactivity

Reactivity: No further relevant information available.

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Possibility of hazardous reactions: No dangerous reactions known.

Conditions to avoid: No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: No dangerous decomposition products known.

11. Toxicological information

LD/LC50 values that are relevant for classification: No data available

Primary irritant effect:

on the skin: No irritant effect.

on the eye: Irritating effect.

Sensitization: No sensitizing effects known.

Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

Carcinogenic categories:

IARC (International Agency for Research on Cancer): None of the ingredients are listed.

NTP (National Toxicology Program): None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration): None of the ingredients are listed.

12 Ecological information

Toxicity:

Aquatic toxicity: Not harmful to the aquatic environment

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Persistence and degradability: Not available

Behavior in environmental systems: Bioaccumulative potential Not known

Mobility in soil: No further relevant information available.

Ecotoxicological effects: Not available

Additional ecological information:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Results of PBT and vPvB assessment PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects No further relevant information available.

13 Disposal considerations

Waste treatment methods recommendation:

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: Handling and Storage and Section 8: Exposure Control/Personal Protection for additional handling information and protection of employees.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

UN-Number	Not hazardous for transportation
DOT, ADR, ADN, IMDG, IATA	Void
UN proper shipping name	None
DOT, ADR, ADN, IMDG, IATA	Void
Transport hazard class(es)	None
DOT, ADR, ADN, IMDG, IATA Class	Void
Packing group	None
DOT, ADR, IMDG, IATA	Void
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
UN "Model Regulation":	Void

15 Regulatory information

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

Section 355 (extremely hazardous substances): None of the ingredients are listed.

Section 313 (Specific toxic chemical listings): None of the ingredients are listed.

TSCA (Toxic Substances Control Act): All ingredients are listed.

Proposition 65

Chemicals known to cause cancer: None of the ingredients are listed.

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Chemicals known to cause reproductive toxicity for females:	None of the ingredients are listed.
Chemicals known to cause reproductive toxicity for males:	None of the ingredients are listed.
Chemicals known to cause developmental toxicity:	None of the ingredients are listed.
<u>Cancerogenity categories</u>	
EPA (Environmental Protection Agency):	None of the ingredients are listed.
TLV (Threshold Limit Value established by ACGIH):	None of the ingredients are listed.
NIOSH-Ca (National Institute for Occupational Safety and Health):	None of the ingredients are listed.
GHS label elements :	Void
Signal word:	Void
Hazard statements:	Void
<u>National regulations:</u>	
Water hazard class:	Water hazard class 1 (Self-assessment): slightly hazardous for water.
Chemical safety assessment:	A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organization
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit

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1 Product and Company Identification

Product identifier

Trade name: **BioCode RT Mix**

Product Code: 24R0005

Application of the substance / the mixture: Laboratory chemicals

Details of the supplier of the safety data sheet Manufacturer/Supplier:

Applied Biocode Inc.

10020 Pioneer Blvd. Suite 105 Santa Fe Springs, CA 90670

1-833-246-2633 or (562)-801-0050

Emergency telephone number:

For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident

Call 1-833-262-8324

2. Hazard(s) Identification

Classification of the substance or mixture

The product is not classified as hazardous according to the Globally Harmonized System (GHS).

Label elements

GHS label elements Void

Hazard pictograms Void

Signal word Void

Hazard statements Void

Classification system:

NFPA ratings (scale 0 - 4)

Health = 0

Fire = 0

Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = 0

Fire = 0

Reactivity = 0

OSHA Hazard Overview (Criteria according to 29CFR1910.1200): Not applicable

Target Organ(s): Not applicable or unknown

Other hazards:

This mixture has not been tested to determine the overall health hazard; therefore in accordance with 29CFR1910.1200, the data reported above pertains to the hazardous ingredients of this mixture.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable

3 Composition/information on ingredients

Chemical characterization: Mixtures

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Description:

The product is a mixture of the hazardous substances listed below along with unlisted nonhazardous substances. The exact concentration percentages of the hazardous substances may be withheld as an Applied BioCode trade secret.

CAS	Description	Content
56-81-5	Glycerol	25-50%

Additional information: For the wording of the listed risk phrases refer to section 15

4. First aid measures

General information: No special measures required.

After inhalation: If the patient feels unwell or is concerned, obtain medical advice.

After skin contact: Generally the product does not irritate the skin.

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: If the patient feels unwell or is concerned, obtain medical advice.

Information for doctor:

Most important symptoms and effects, both acute and delayed: None

Indication of any immediate medical attention and special treatment needed: No further relevant information available.

5. Fire-fighting measures

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

Special hazards arising from the substance or mixture: None known

Advice for firefighters: No special advice

Protective equipment: No special measures required.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Not required.

Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Reference to other sections

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 13 for disposal information.

7. Handling and storage

Handling:

Precautions for safe handling: No special measures required.

Information about protection against explosions and fires: The product is not flammable.

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Storage:

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: None.

Specific end use(s): No further relevant information available.

8. Exposure controls/personal protection

Components with limit values that require monitoring at the workplace:	
56-81-5 glycerol	
PEL	Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction
TLV	Insufficient data

General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed.

Breathing equipment: Not required.

Protection of hands: Not required.

Material of gloves: The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

9. Physical and chemical properties

Form:	Fluid
Color:	Colorless
Odor:	Not determined
Odor threshold:	Not determined
pH value at 30°C:	8.5
Melting point/range:	Not determined
Boiling point/range:	100°C (212°F)
Flash point (solid or gas):	Not applicable
Flammability:	Not applicable
Decomposition temperature:	Not determined
Auto igniting:	Not applicable
Danger of explosion:	Product does not present an explosion hazard
Vapor pressure at 20°C:	Not determined
Density:	Not determined
Relative density:	Not determined
Vapor density:	Not determined
Evaporation rate:	Not determined

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Solubility in /Miscibility with water:	Fully miscible
Partition coefficient:	Not determined
Viscosity:	Not determined
Dynamic:	Not determined
Kinematic	Not determined
Organic solvents:	47.0%
Water:	49.4%
VOC content:	0.0%
Solid content:	2.0%
Other information:	No further information

10 Stability and reactivity

Reactivity: No further relevant information available.

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Possibility of hazardous reactions: No dangerous reactions known.

Conditions to avoid: No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: No dangerous decomposition products known.

11. Toxicological information

LD/LC50 values that are relevant for classification: No data available

Primary irritant effect:

on the skin: No irritant effect.

on the eye: Irritating effect.

Sensitization: No sensitizing effects known.

Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

Carcinogenic categories:

IARC (International Agency for Research on Cancer): None of the ingredients are listed.

NTP (National Toxicology Program): None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration): None of the ingredients are listed.

12 Ecological information

Toxicity:

Aquatic toxicity: Not harmful to the aquatic environment

Persistence and degradability: Not available

Behavior in environmental systems: Bioaccumulative potential Not known

Mobility in soil: No further relevant information available.

Ecotoxic effects: Not available

Additional ecological information:

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Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Results of PBT and vPvB assessment PBT: Not applicable.

Other adverse effects: No further relevant information available.

13 Disposal considerations

Waste treatment methods recommendation:

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: Handling and Storage and Section 8: Exposure Control/Personal Protection for additional handling information and protection of employees.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

UN-Number	Not hazardous for transportation
DOT, ADR, ADN, IMDG, IATA	Void
UN proper shipping name	None
DOT, ADR, ADN, IMDG, IATA	Void
Transport hazard class(es)	None
DOT, ADR, ADN, IMDG, IATA Class	Void
Packing group	None
DOT, ADR, IMDG, IATA	Void
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
UN "Model Regulation":	Void

15 Regulatory information


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

Section 355 (extremely hazardous substances):	None of the ingredients are listed.
Section 313 (Specific toxic chemical listings):	None of the ingredients are listed
TSCA (Toxic Substances Control Act):	All ingredients are listed.

Proposition 65

Chemicals known to cause cancer:	None of the ingredients are listed.
Chemicals known to cause reproductive toxicity for females:	None of the ingredients are listed.
Chemicals known to cause reproductive toxicity for males:	None of the ingredients are listed.
Chemicals known to cause developmental toxicity:	None of the ingredients are listed.

Carcinogenicity categories

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EPA (Environmental Protection Agency): None of the ingredients are listed.
 TLV (Threshold Limit Value established by ACGIH): None of the ingredients are listed
 NIOSH-Ca (National Institute for Occupational Safety and Health): None of the ingredients are listed.

GHS label elements : Void
 Signal word: Void
 Hazard statements: Void

National regulations:


Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms:

- RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
- ICAO: International Civil Aviation Organization
- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- ACGIH: American Conference of Governmental Industrial Hygienists
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- NFPA: National Fire Protection Association (USA)
- HMIS: Hazardous Materials Identification System (USA)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- NIOSH: National Institute for Occupational Safety
- OSHA: Occupational Safety & Health
- TLV: Threshold Limit Value
- PEL: Permissible Exposure Limit
- REL: Recommended Exposure Limit

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1 Product and Company Identification

Product identifier

Trade name: **BioCode RPP Primer Mix**

Product Code: 14R0001

Application of the substance / the mixture: Laboratory chemicals

Details of the supplier of the safety data sheet Manufacturer/Supplier:

Applied Biocode Inc.

10020 Pioneer Blvd. Suite 105 Santa Fe Springs, CA 90670

1-833-246-2633 or (562)-801-0050

Emergency telephone number:

For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident

Call 1-833-262-8324

2. Hazard(s) Identification

Classification of the substance or mixture

The product is not classified as hazardous according to the Globally Harmonized System (GHS).

Label elements

GHS label elements

THIS PRODUCT IS CONSIDERED NON-HAZARDOUS. This product does not contain more than 1% of a component classified as hazardous and does not contain more than 0.1% of a component classified as carcinogenic. Despite the classification of certain products/components as non-hazardous, we strongly recommend using prudent laboratory practices: avoiding unnecessary contact and use of personal protective equipment, which may include gloves, eye protection, and lab coats, during the use of any laboratory reagent.

Hazard pictograms: Not applicable

Signal word: Not applicable

Hazard statements: Not applicable

Classification system:

NFPA ratings (scale 0 - 4)

Health = 0

Fire = 0

Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = 0

Fire = 0

Reactivity = 0

OSHA Hazard Overview (Criteria according to 29CFR1910.1200): Not applicable

Target Organ(s): Not applicable or unknown

Other hazards:

This mixture has not been tested to determine the overall health hazard; therefore in accordance with 29CFR1910.1200,

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the data reported above pertains to the hazardous ingredients of this mixture.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable

3 Composition/information on ingredients

Chemical characterization: Mixtures

Description:

The product is a mixture of the hazardous substances listed below along with unlisted nonhazardous substances. The exact concentration percentages of the hazardous substances may be withheld as an Applied BioCode trade secret.

CAS	Description	Content
NA	Oligodeoxyribonucleic acid, unmodified	0-1%

Additional information: For the wording of the listed risk phrases refer to section 15

4. First aid measures

General information: No special measures required.

After inhalation: If the patient feels unwell or is concerned, obtain medical advice.

After skin contact: Generally the product does not irritate the skin.

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: If the patient feels unwell or is concerned, obtain medical advice.

Information for doctor:

Most important symptoms and effects, both acute and delayed: None

Indication of any immediate medical attention and special treatment needed: No further relevant information available.

5. Fire-fighting measures

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

Special hazards arising from the substance or mixture: None known

Advice for firefighters: No special advice

Protective equipment: No special measures required.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Wear appropriate protective clothing and chemically compatible gloves. Place spillage in appropriate container for waste disposal. Wash contaminated clothing before reuse.

Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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Reference to other sections

No dangerous substances are released.
See Section 7 for information on safe handling.
See Section 13 for disposal information.

7. Handling and storage

Handling:

Precautions for safe handling: No special measures required.

Information about protection against explosions and fires: The product is not flammable.

Storage:

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: None.

Specific end use(s): No further relevant information available.

8. Exposure controls/personal protection

Exposure controls: Use in a laboratory hood or other ventilated device. OSHA, ACGIH, or NIOSH has not established occupational exposure limits for this substance. Use prudent laboratory practices for handling chemical substances of unknown toxicity.

Eye protection: Employees should wear splash proof or dust resistant safety goggles to prevent eye contact with this substance..

Clothing: Employees should wear appropriate protective clothing (laboratory coat with long sleeves) and equipment to prevent skin contact with this material.

Gloves: Employee must wear appropriate protective gloves to prevent contact with this material.

9. Physical and chemical properties

Form:	Liquid
Color:	Colorless
Odor:	Not determined
Odor threshold:	Not determined
pH value at 30°C:	8.5
Melting point/range:	Not determined
Boiling point/range:	100°C (212°F)
Flash point (solid or gas):	Not applicable
Flammability:	Not applicable
Ignition temperature:	Not determined
Decomposition temperature:	Not determined
Auto igniting:	Not applicable
Danger of explosion:	Product does not present an explosion hazard
Vapor pressure:	Not determined

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Density:	Not determined
Relative density:	Not determined
Vapor density:	Not determined
Evaporation rate:	Not determined
Solubility in /Miscibility with water:	Fully miscible
Partition coefficient:	Not determined
Viscosity:	Not determined
Dynamic:	Not determined
Kinematic	Not determined

10 Stability and reactivity

Reactivity: No further relevant information available.

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Possibility of hazardous reactions: No dangerous reactions known.

Conditions to avoid: No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: No dangerous decomposition products known.

11. Toxicological information

LD/LC50 values that are relevant for classification: No data available

Primary irritant effect:

on the skin: No irritant effect.

on the eye: Irritating effect.

Sensitization: No sensitizing effects known.

Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

Carcinogenic categories:

IARC (International Agency for Research on Cancer): None of the ingredients are listed.

NTP (National Toxicology Program): None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration): None of the ingredients are listed.

12 Ecological information

Toxicity:

Aquatic toxicity: Not harmful to the aquatic environment

Persistence and degradability: Not available


Behavior in environmental systems: Bioaccumulative potential Not known

Mobility in soil: No further relevant information available.

Ecotoxicological effects: Remark: Not available

Additional ecological information:

Water hazard class 1 (Self-assessment): slightly hazardous for water

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Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Results of PBT and vPvB assessment PBT: Not applicable.

Other adverse effects No further relevant information available.

13 Disposal considerations

Waste treatment methods recommendation:

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: Handling and Storage and Section 8: Exposure Control/Personal Protection for additional handling information and protection of employees.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

UN-Number	Not hazardous for transportation
DOT, ADR, ADN, IMDG, IATA	Void
UN proper shipping name	None
DOT, ADR, ADN, IMDG, IATA	Void
Transport hazard class(es)	None
DOT, ADR, ADN, IMDG, IATA Class	Void
Packing group	None
DOT, ADR, IMDG, IATA	Void
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
UN "Model Regulation":	Void

15 Regulatory information

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

Section 355 (extremely hazardous substances):	None of the ingredients are listed.
Section 313 (Specific toxic chemical listings):	None of the ingredients are listed
TSCA (Toxic Substances Control Act):	All ingredients are listed.

Proposition 65

Chemicals known to cause cancer:	None of the ingredients are listed.
Chemicals known to cause reproductive toxicity for females:	None of the ingredients are listed.
Chemicals known to cause reproductive toxicity for males:	None of the ingredients are listed.
Chemicals known to cause developmental toxicity:	None of the ingredients are listed.

Carcinogenicity categories

EPA (Environmental Protection Agency):	None of the ingredients are listed.
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TLV (Threshold Limit Value established by ACGIH): None of the ingredients are listed
 NIOSH-Ca (National Institute for Occupational Safety and Health): None of the ingredients are listed.

GHS label elements : Void
 Signal word: Void
 Hazard statements: Void

National regulations:

Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms:

- RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
- ICAO: International Civil Aviation Organization
- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- ACGIH: American Conference of Governmental Industrial Hygienists
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- NFPA: National Fire Protection Association (USA)
- HMIS: Hazardous Materials Identification System (USA)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- NIOSH: National Institute for Occupational Safety
- OSHA: Occupational Safety & Health
- TLV: Threshold Limit Value
- PEL: Permissible Exposure Limit
- REL: Recommended Exposure Limit

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1 Product and Company Identification

Product identifier

Trade name: **BioCode RPP BMB-Probe Mix**

Product Code: 44-R0001

Application of the substance / the mixture: Laboratory chemicals

Details of the supplier of the safety data sheet Manufacturer/Supplier:

Applied Biocode Inc.

10020 Pioneer Blvd. Suite 105 Santa Fe Springs, CA 90670

1-833-246-2633 or (562)-801-0050

Emergency telephone number:

For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident

Call 1-833-262-8324

2. Hazard(s) Identification

Classification of the substance or mixture

GHS Label elements

Hazard pictograms: Not applicable

Signal word: Not applicable

Hazard statements: Not applicable

Classification system:

This mixture has not been tested to determine the overall health hazard; therefore in accordance with 29CFR1910.1200, the data reported below pertains to the hazardous ingredients of this mixture

NFPA ratings (scale 0 - 4)

CAS #	Chemical Name	Health Hazard	Fire	Reactivity Hazard
7647-14-5	Sodium chloride	1	0	0
7447-40-7	Potassium chloride	0	0	0
7558-79-4	Disodium hydrogen phosphate	0	0	0
7778-77-0	Potassium Dihydrogen phosphate	0	0	0
9005-64-5	Tween-20	0	0	0
2682-20-4 Active ingredient	ProClin-950 Active ingredient 2-Methyl-4-isothiazolin-3-one	3	0	0
7732-18-5	Deionized water	0	0	0
N/A	Carboxyl BMB	N/A	N/A	N/A

HMIS-ratings (scale 0 - 4)

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CAS #	Chemical Name	Health Hazard	Flammability	Physical Hazard
7647-14-5	Sodium chloride	1	0	0
7447-40-7	Potassium chloride	1	0	0
7558-79-4	Disodium hydrogen phosphate	0	0	0
7778-77-0	Potassium Dihydrogen phosphate	0	0	0
9005-64-5	Tween-20	0	0	0
2682-20-4 Active ingredient	ProClin-950 Active ingredient 2-Methyl-4-isothiazolin-3-one	3	0	0
7732-18-5	Deionized water	0	0	0
N/A	Carboxyl BMB	N/A	N/A	N/A

OSHA Hazard Overview (Criteria according to 29CFR1910.1200): Not applicable

Target Organ(s): Not applicable or unknown

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable

3 Composition/information on ingredients

Chemical characterization: Mixtures

Description:

The product is a mixture of the hazardous substances listed below along with unlisted nonhazardous substances. The exact concentration percentages of the hazardous substances may be withheld as an Applied BioCode trade secret.

CAS	Description	Content
NA	Carboxyl BMB	50k-500k in 1.5mL Buffer
NA	Deoxyribonucleic acid	NA
7647-14-5	Sodium chloride	0-1 %
7447-40-7	Potassium chloride	0-1 %
7558-79-4	Disodium hydrogen phosphate	0-1 %
7778-77-0	Potassium dihydrogen phosphate	0-1 %
9005-64-5	Tween-20	0-1 %
2682-20-4	ProClin-950 (2-Methyl-4-isothiazolin-3-one)	0-1 %
7732-18-5	Deionized water	>98 %
127087-87-0	Tergitol NP-10	N/A
39423-51-3	Jeffamine	N/A

Additional information: For the wording of the listed risk phrases refer to section 15

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4. First aid measures

General information: Consult a physician. Show this safety data sheet to the doctor in attendance. Remove person/s from exposure or dangerous area.

After inhalation: If the patient feels unwell or is concerned, obtain medical advice.

After skin contact: Generally the product does not irritate the skin.

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: If the patient feels unwell or is concerned, obtain medical advice.

Information for doctor:

Most important symptoms and effects, both acute and delayed: None

Indication of any immediate medical attention and special treatment needed: No further relevant information available.

5. Fire-fighting measures

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

Special hazards arising from the substance or mixture: None known

Advice for firefighters: No special advice

Protective equipment: No special measures required.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Wear appropriate protective clothing and chemically compatible gloves. Place spillage in appropriate container for waste disposal. Wash contaminated clothing before reuse.

Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Reference to other sections

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 13 for disposal information.

7. Handling and storage

Handling:

Precautions for safe handling: No special measures required.

Information about protection against explosions and fires: The product is not flammable.

Storage:

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: None.

Specific end use(s): No further relevant information available.

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8. Exposure controls/personal protection

Exposure controls: Use in a laboratory hood or other ventilated device. OSHA, ACGIH, or NIOSH has not established occupational exposure limits for this substance. Use prudent laboratory practices for handling chemical substances of unknown toxicity.

Eye protection: Employees should wear splash proof or dust resistant safety goggles to prevent eye contact with this substance..

Clothing: Employees should wear appropriate protective clothing (laboratory coat with long sleeves) and equipment to prevent skin contact with this material.

Gloves: Employee must wear appropriate protective gloves to prevent contact with this material.

9. Physical and chemical properties

Form:	Liquid
Color:	Colorless
Odor:	Not determined
Odor threshold:	Not determined
pH value at 30°C:	8.5
Melting point/range:	Not determined
Boiling point/range:	100°C (212°F)
Flash point (solid or gas):	Not applicable
Flammability:	Not applicable
Ignition temperature:	Not determined
Decomposition temperature:	Not determined
Auto igniting:	Not applicable
Danger of explosion:	Product does not present an explosion hazard
Vapor pressure:	Not determined
Density:	Not determined
Relative density:	Not determined
Vapor density:	Not determined
Evaporation rate:	Not determined
Solubility in /Miscibility with water:	Fully miscible
Partition coefficient:	Not determined
Viscosity:	Not determined
Dynamic:	Not determined
Kinematic	Not determined

10 Stability and reactivity

Reactivity: No further relevant information available.

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Possibility of hazardous reactions: No dangerous reactions known.

Conditions to avoid: No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: No dangerous decomposition products known.

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11. Toxicological information

LD/LC50 values that are relevant for classification:

CAS	Description	Acute Oral Toxicity
28906-96-9	Formaldehyde, polymer (SU-8)	rat: LD50>2000 mg/kg
7447-40-7	Potassium chloride	mouse: LD50=4gm/kg rat: LD50=3000 mg/kg
7647-14-5	Sodium chloride	mouse: LD50=1500 mg/kg rat: LD50=2600 mg/kg
7558-79-4	Disodium hydrogen phosphate	mouse: LD50=N/A rat: LD50= 17 gm/kg
7778-77-0	Potassium dihydrogen phosphate	NA
9005-64-5	Tween-20	mouse: LD50=>33 gm/kg rat: LD50= 40,554 mg/kg
2682-20-4	ProClin-950 (2-Methyl-4-isothiazolin-3-one)	rat: LD50= 3600 mg/kg

CAS	Description	Acute Inhalation Toxicity
28906-96-9	Formaldehyde, polymer (SU-8)	rat: LD50>5 mg/L
7447-40-7	Potassium chloride	mouse: LD50=4gm/kg rat: LD50=3000 mg/kg
7647-14-5	Sodium chloride	rat: LC50=>42 gm/m ³ /1H
7558-79-4	Disodium hydrogen phosphate	NA
7778-77-0	Potassium dihydrogen phosphate	NA
9005-64-5	Tween-20	NA
2682-20-4	ProClin-950 (2-Methyl-4-isothiazolin-3-one)	NA

CAS	Description	Acute Dermal Toxicity
28906-96-9	Formaldehyde, polymer (SU-8)	rabbit: LD50>2000 mg/kg
7447-40-7	Potassium chloride	NA
7647-14-5	Sodium chloride	rabbit: LD50 = > 10 gm/kg
7558-79-4	Disodium hydrogen phosphate	NA
7778-77-0	Potassium dihydrogen phosphate	NA
9005-64-5	Tween-20	NA
2682-20-4	ProClin-950 (2-Methyl-4-isothiazolin-3-one)	NA

Primary irritant effect:

on the skin: May cause irritation

on the eye: May cause irritation

Sensitization: May cause irritation

Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our

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experience and the information provided to us.

Carcinogenic categories:

IARC (International Agency for Research on Cancer): None of the ingredients are listed.

NTP (National Toxicology Program): None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration): None of the ingredients are listed.

12 Ecological information

Toxicity:

Aquatic toxicity: Due to the small size of 2 mL vial and the low concentration of hazardous ingredient in this product, risks are estimated to be minor.

Persistence and degradability: Not available

Behavior in environmental systems:

Bioaccumulative potential: Not known

Mobility in soil: Not available.

Ecotoxic effects: Not available

Additional ecological information:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Results of PBT and vPvB assessment PBT: Not applicable.

Other adverse effects No further relevant information available.

13 Disposal considerations

Waste treatment methods recommendation:

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: Handling and Storage and Section 8: Exposure Control/Personal Protection for additional handling information and protection of employees.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

UN-Number	Not hazardous for transportation
DOT, ADR, ADN, IMDG, IATA	Void
UN proper shipping name	None
DOT, ADR, ADN, IMDG, IATA	Void
Transport hazard class(es)	None
DOT, ADR, ADN, IMDG, IATA Class	Void
Packing group	None
DOT, ADR, IMDG, IATA	Void
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of	

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MARPOL73/78 and the IBC Code Not applicable.
UN "Model Regulation": Void

15 Regulatory information

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

Section 355 (extremely hazardous substances): None of the ingredients are listed.
Section 313 (Specific toxic chemical listings): None of the ingredients are listed
TSCA (Toxic Substances Control Act): All ingredients are listed.

Proposition 65

Chemicals known to cause cancer: None of the ingredients are listed.
Chemicals known to cause reproductive toxicity for females: None of the ingredients are listed.
Chemicals known to cause reproductive toxicity for males: None of the ingredients are listed.
Chemicals known to cause developmental toxicity: None of the ingredients are listed.

Carcinogenity categories

EPA (Environmental Protection Agency): None of the ingredients are listed.
TLV (Threshold Limit Value established by ACGIH): None of the ingredients are listed
NIOSH-Ca (National Institute for Occupational Safety and Health):None of the ingredients are listed.

GHS label elements : Void
Signal word: Void
Hazard statements: Void

National regulations:

Water hazard class: None of the ingredients are listed.
Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms:

- RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
- ICAO: International Civil Aviation Organization
- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- ACGIH: American Conference of Governmental Industrial Hygienists
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances

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CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety


OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Current

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1 Product and Company Identification

Product identifier

Trade name: **BioCode RNA-IC2**

Product Code: 43-R0001

Application of the substance / the mixture: Molecular Standards are used as controls for developing, validating, and monitoring molecular instruments and assays.

Details of the supplier of the safety data sheet Manufacturer/Supplier:

Applied Biocode Inc.

10020 Pioneer Blvd. Suite 105 Santa Fe Springs, CA 90670

1-833-246-2633 or (562)-801-0050

Emergency telephone number:

For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident

Call 858-824-9000 or 320-253-1640

2. Hazard(s) Identification

Classification of the substance or mixture

The product is not classified as hazardous according to the Globally Harmonized System (GHS).

Label elements

GHS label elements

This substance contains no ingredients at concentrations considered hazardous as defined by OSHA 29CFR 10101200 however this product should be handled according to good laboratory practices, with proper personal protective equipment and within the parameters of the purchaser's chemical hygiene plan.

Hazard pictograms: Not applicable

Signal word: Not applicable

Hazard statements: Not applicable

Classification system:

NFPA ratings (scale 0 - 4)

Health = 0

Fire = 0

Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = 0

Fire = 0

Reactivity = 0

OSHA Hazard Overview (Criteria according to 29CFR1910.1200): Not applicable

Target Organ(s): Not applicable or unknown

Other hazards:

This mixture has not been tested to determine the overall health hazard; therefore in accordance with 29CFR1910.1200, the data reported above pertains to the hazardous ingredients of this mixture.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable

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3 Composition/information on ingredients

Chemical characterization: Mixtures

Description:

The product is a mixture of the hazardous substances listed below along with unlisted nonhazardous substances. The exact concentration percentages of the hazardous substances may be withheld as an Applied BioCode trade secret.

CAS	Description	Content
7365-45-9	Hepes	1%
7732-18-5	Water	96%
NA	Tripticase	3%

Additional information: For the wording of the listed risk phrases refer to section 15

4. First aid measures

General information: No special measures required.

After inhalation: If the patient feels unwell or is concerned, obtain medical advice.

After skin contact: Wash off with soap and plenty of water. Consult a physician.

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: If the patient feels unwell or is concerned, obtain medical advice.

Information for doctor:

Most important symptoms and effects, both acute and delayed: None

Indication of any immediate medical attention and special treatment needed: No further relevant information available.

5. Fire-fighting measures

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

Special hazards arising from the substance or mixture: None known

Advice for firefighters: No special advice

Protective equipment: No special measures required.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Wear appropriate protective clothing and chemically compatible gloves. Place spillage in appropriate container for waste disposal. Wash contaminated clothing before reuse.

Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Reference to other sections

No dangerous substances are released.

See Section 7 for information on safe handling.

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See Section 13 for disposal information.

7. Handling and storage

Handling:

Precautions for safe handling: No special measures required.

Information about protection against explosions and fires: The product is not flammable.

Storage:

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: None.

Specific end use(s): No further relevant information available.

8. Exposure controls/personal protection

Exposure controls: Use in a laboratory hood or other ventilated device. OSHA, ACGIH, or NIOSH has not established occupational exposure limits for this substance. Use prudent laboratory practices for handling chemical substances of unknown toxicity.

Eye protection: Employees should wear splash proof or dust resistant safety goggles to prevent eye contact with this substance..

Clothing: Employees should wear appropriate protective clothing (laboratory coat with long sleeves) and equipment to prevent skin contact with this material.

Gloves: Employee must wear appropriate protective gloves to prevent contact with this material.

9. Physical and chemical properties

Form:	Liquid
Color:	Amber
Odor:	Odorless
Odor threshold:	Not determined
pH value at 30°C:	Not determined
Melting point/range:	Not determined
Boiling point/range:	Not determined
Flash point (solid or gas):	Not applicable
Flammability:	Not applicable
Ignition temperature:	Not determined
Decomposition temperature:	Not determined
Auto igniting:	Not applicable
Danger of explosion:	Product does not present an explosion hazard
Vapor pressure:	Not determined
Density:	Not determined
Relative density:	Not determined
Vapor density:	Not determined

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Evaporation rate:	Not determined
Solubility in /Miscibility with water:	Fully miscible
Partition coefficient:	Not determined
Viscosity:	Not determined
Dynamic:	Not determined
Kinematic	Not determined

10 Stability and reactivity

Reactivity: No further relevant information available.

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Possibility of hazardous reactions: No dangerous reactions known.

Conditions to avoid: No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: No dangerous decomposition products known.

11. Toxicological information

LD/LC50 values that are relevant for classification: No data available

Primary irritant effect:

on the skin: None anticipated under normal product use.

on the eye: May cause eye irritation.

Sensitization: No sensitizing effects known.

Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

Carcinogenic categories:

IARC (International Agency for Research on Cancer): None of the ingredients are listed.

NTP (National Toxicology Program): None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration): None of the ingredients are listed.

12 Ecological information

Toxicity:

Aquatic toxicity: Not classified

Persistence and degradability: Not available

Behavior in environmental systems:

Bioaccumulative potential: Not available

Mobility in soil: Not available

Ecotoxic effects: Not available

Results of PBT and vPvB assessment PBT: Not applicable.

Other adverse effects: No further relevant information available.

Applied BioCode	TITLE: Safety Data Sheet: BioCode Respiratory Pathogen Panel			
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13 Disposal considerations

Waste treatment methods recommendation:

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: Handling and Storage and Section 8: Exposure Control/Personal Protection for additional handling information and protection of employees.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.
Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

UN-Number	Not hazardous for transportation
DOT, ADR, ADN, IMDG, IATA	Void
UN proper shipping name	None
DOT, ADR, ADN, IMDG, IATA	Void
Transport hazard class(es)	None
DOT, ADR, ADN, IMDG, IATA Class	Void
Packing group	None
DOT, ADR, IMDG, IATA	Void
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
UN "Model Regulation":	Void

15 Regulatory information

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

Section 355 (extremely hazardous substances):	None of the ingredients are listed.
Section 313 (Specific toxic chemical listings):	None of the ingredients are listed
TSCA (Toxic Substances Control Act):	All ingredients are listed.

Proposition 65

Chemicals known to cause cancer:	None of the ingredients are listed.
Chemicals known to cause reproductive toxicity for females:	None of the ingredients are listed.
Chemicals known to cause reproductive toxicity for males:	None of the ingredients are listed.
Chemicals known to cause developmental toxicity:	None of the ingredients are listed.

Carcinogenicity categories

EPA (Environmental Protection Agency):	None of the ingredients are listed.
TLV (Threshold Limit Value established by ACGIH):	None of the ingredients are listed
NIOSH-Ca (National Institute for Occupational Safety and Health):	None of the ingredients are listed.

GHS label elements : Void

Applied BioCode	TITLE: Safety Data Sheet: BioCode Respiratory Pathogen Panel			
	DOCUMENT NO: SPC-0473	DOCUMENT CATEGORY: SDS	REVISION: 01	EFFECTIVE DATE: 4/2/2019

Signal word: Void
Hazard statements: Void

National regulations:

Water hazard class: None of the ingredients are listed.
Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms:

- RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
- ICAO: International Civil Aviation Organization
- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- ACGIH: American Conference of Governmental Industrial Hygienists
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- NFPA: National Fire Protection Association (USA)
- HMIS: Hazardous Materials Identification System (USA)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- NIOSH: National Institute for Occupational Safety
- OSHA: Occupational Safety & Health
- TLV: Threshold Limit Value
- PEL: Permissible Exposure Limit
- REL: Recommended Exposure Limit