



iRepertoire, Inc.

# iR-Profile Reagent Kit: PCR 1 Rxn Mix

Safety Data Sheet

V20201029



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# Version Updates

| Update Classification | Update Description | Version   |
|-----------------------|--------------------|-----------|
| Minor                 | Updated styling    | V20201029 |



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## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name : PCR1 Rxn Mix

### Manufacturer's or suppliers details

Company : iRepertoire, Inc.  
601 Genome Way  
Suite 3005  
Huntsville, Alabama 35806 USA

Telephone Number : 1 (256) 327-0948

Email Address : [info@irepertoire.com](mailto:info@irepertoire.com)

### Recommended use of the chemicals and restrictions on use

Recommended use : Laboratory chemicals

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## SECTION 2. HAZARDS

### GHS Classification

Not a hazardous substance or mixture.

### GHS Label element

Not a hazardous substance or mixture.

### Potential Health Effects

Aggravated Medical : None Known.  
Condition

Symptoms of Overexposure:  
No information available.

### Carcinogenicity:

**IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**ACGIH** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

**OSHA** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture : Mixture

#### Hazardous ingredients

| Chemical Name                   | CAS-No. | Concentration [%] |
|---------------------------------|---------|-------------------|
| Tris(hydroxymethyl)aminomethane | 77-86-1 | >= 1- < 5         |
| glycerol                        | 56-81-5 | >= 50 - <70       |

### SECTION 4. FIRST MEASURES

- General advice : Show this material safety data sheet to the doctor in attendance.
- If inhaled : Move to fresh air. If symptoms persist, call a physician.
- In case of skin contact : Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.
- In case of eye contact : Remove contact lenses.  
Protect unharmed eye.  
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- If swallowed : If accidentally swallowed obtain immediate medical attention. Rinse mouth with water. Never give anything by mouth to an unconscious person.
- Most important symptoms and effects, both acute and delayed : No information available.
- Notes to physician : No information available.

### SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Specific hazards during fire fighting : Exposure to decomposition products may be a hazard to health.
- Hazardous combustion products : No hazardous combustion products are known
- Specific extinguishing methods :
- Further Information : In the event of fire and/or explosion do not breathe fumes.
- Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.



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## SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment. Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
- Environmental precautions : Prevent further leakage or spillage if safe to do so.
- Methods and materials for containment and cleaning up : Keep in suitable, closed containers for disposal.
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## SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
- Materials to avoid : Do not store near acids.
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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

### Personal protective equipment

#### 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 recommended.

- Hygiene measures : Keep away from food and drink. When using do not eat, drink, or smoke. Ensure adequate ventilation, especially in confined areas. Avoid contact with the skin and the eyes.
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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

|  |                          |
|--|--------------------------|
| Appearance                             | : liquid                 |
| Color                                  | : colorless              |
| Odor                                   | : characteristic         |
| Odor Threshold                         | : No data available      |
| pH                                     | : 8.7                    |
| Melting point/range                    | : No data available      |
| Boiling point/boiling range            | : No data available      |
| Flash point                            | : No data available      |
| Evaporation rate                       | : No data available      |
| Burning rate                           | : No data available      |
| Upper explosion limit                  | : No data available      |
| Lower explosion limit                  | : No data available      |
| Vapor Pressure                         | : No data available      |
| Relative vapor density                 | : No data available      |
| Relative density                       | : No data available      |
| Density                                | : 1.06 g/cm <sup>3</sup> |
| Solubility(ies)                        |                          |
| Water solubility                       | No data available        |
| Solubility in other solvents           | : No data available      |
| Partition coefficient: n-octanol/water | : No data available      |
| Autoignition temperature               | : not determined         |
| Thermal decomposition                  | : No data available      |
| Viscosity                              | : No data available      |
| Viscosity, dynamic                     | : No data available      |
| Viscosity, kinematic                   | : No data available      |
| Explosive properties                   | : Not applicable         |
| Oxidizing properties                   | : No data available      |

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## SECTION 10. STABILITY AND REACTIVITY

|                                    |  |
|------------------------------------|--|
| Reactivity                         | : No decomposition if stored and applied as directed.  |
| Chemical stability                 | : No decomposition if stored and applied as directed.  |
| Possibility of hazardous reactions | : Stable under recommended storage conditions.<br>Hazardous decomposition products formed under fire conditions<br>Keep away from oxidizing agents, and acidic or alkaline products. |
| Conditions to avoid                | : No data available  |
| Incompatible materials             | : No data available  |
| Hazardous decomposition products   | : No decomposition if stored and applied as directed.  |

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## SECTION 11. TOXOLOGICAL INFORMATION

### Acute toxicity

#### Product

|                           |                     |
|---------------------------|---------------------|
| Acute oral toxicity       | : No data available |
| Acute inhalation toxicity | : No data available |
| Acute dermal toxicity     | : No data available |

#### Ingredients:

#### **Tris(hydroxymethyl)aminomethane**

|                              |  |
|------------------------------|--|
| <b>Acute oral toxicity</b>   | : LD50 Oral Rat: 5,900 mg/kg                                 |
| <b>Acute dermal toxicity</b> | : LD50 Rat: > 5,000 mg/kg<br>Method: OECD Test Guideline 402 |

#### **Skin corrosion/irritation**

|                |   |
|----------------|---|
| <u>Product</u> | May cause skin irritation and/or dermatitis |
|----------------|---|

#### **Serious eye damage/eye irritation**

#### Product

Remarks: May irritate eyes

|  |                        |
|--|------------------------|
| <b>Respiratory or skin sensitization</b> | : No data availability |
| <b>Germ cell mutagenicity</b>            | : No data availability |



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|                               |                        |
|-------------------------------|------------------------|
| <b>Carcinogenicity</b>        | : No data availability |
| <b>Reproductive toxicity</b>  | : No data availability |
| <b>STOT-single exposure</b>   | : No data availability |
| <b>STOT-repeated exposure</b> | : No data availability |
| <b>Aspiration toxicity</b>    | : No data availability |
| <b>Further information</b>    | : No data availability |

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## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Product

|                      |                     |
|----------------------|---------------------|
| Toxicity to fish     | : No data available |
| Toxicity to algae    | : No data available |
| Toxicity to bacteria | : No data available |

#### Ingredients:

#### **Tris(hydroxymethyl)aminomethane**

|   |                            |
|---|----------------------------|
| Toxicity to daphnia and other aquatic invertebrates | : EC50 (Daphnia): 980 mg/l |
|   | Exposure time: 48 h        |

|                                      |                   |
|--------------------------------------|-------------------|
| <b>Persistence and degradability</b> | No data available |
|--------------------------------------|-------------------|

### Bioaccumulative potential

#### Product

|  |                     |
|--|---------------------|
| Bioaccumulation                        | : No data available |
| Partition coefficient: n-octanol/water | : No data available |
| <b>Mobility in soil</b>                | : No data available |
| <b>Other adverse effects</b>           | : No data available |

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## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

- Waste from residues : Send to a licensed waste management company. Dispose of as hazardous waste in compliance with local and national regulations.
- Contaminated packaging : Dispose of as unused product. Do not re-use empty containers.
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## SECTION 14. TRANSPORT INFORMATION

UNRTDG : Not regulated as a dangerous good

IATA-DGR : Not regulated as a dangerous good

IMDG-Code : Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not regulated as a dangerous good

### Domestic regulation

49 CFR : Not regulated as a dangerous good

### Special precautions for user:

Remarks : Not classified as dangerous in the meaning of transport regulations

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## SECTION 15. REGULATORY INFORMATION

OSHA Hazards : Severe skin irritant, Severe eye irritant, Severe respiratory irritant

### EPCRA-Emergency Planning and Community Right-to-Know

#### CERCLA Reportable Quantity

| Ingredients       | CAS-No.   | Component RQ (lbs) |
|-------------------|-----------|--------------------|
| hydrogen chloride | 7647-01-0 | 5000               |

#### SARA 304 Extremely Hazardous Substance Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302



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### SARA 313

Not regulated as a dangerous good. : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61). This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F). This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489).

### Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

### US Stat Regulations

**Massachusetts Right to Know** No components are subject to the Massachusetts Right to Know Act.

### Pennsylvania Right to Know and New Jersey Right to Know

|                     |              |
|---------------------|--------------|
| water               | 7732-18-5    |
| Betaine monohydrate | 590-47-6     |
| ammonium sulphate   | 7783-20-2    |
| dCTP disodium       | 102783-51-7  |
| dATP                | Not Assigned |
| dGTP                | Not Assigned |
| dUTP                | Not Assigned |

**California Prop 65** This product does not contain any of California to cause cancer, birth, or any other reproductive defects.

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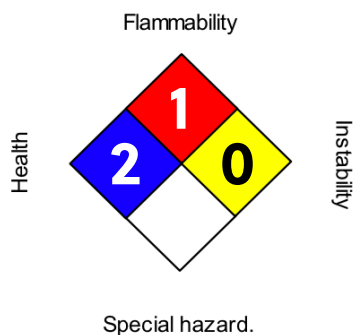


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## SECTION 16. OTHER INFORMATION

### Further Information

#### NFPA:



The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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