iRepertoire, Inc.

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name : iR-PCR2 Mix/ iR-PCR Mix

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

Recommended use : Laboratory - Research Use Only

**Manufacturer's or suppliers details**


Company : iRepertoire, Inc.

800 Hudson Way

Suite 2304

Huntsville, Alabama 35806 USA

Telephone Number : 1 (256) 327-0948

Email Address : info@irepertoire.com


**Emergency Telephone**

Telephone Number (8:00am to 5:00pm M-F) : 1 (256) 327-0948

## 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 Condition: None Known.
Symptoms of Overexposure: No information available.

**Other Hazard** : None known.

**Caricinogenicity:**

**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.

**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 HCl | 1185-53-1 | >= 1- < 5 |
| Glycerol | 56-81-5 | >= 1- < 5 |

## 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, obtain medical attention.

In case of skin contact : Rinse with water as a precaution.

In case of eye contact : Remove contact lenses. Rinse opened eye thoroughly with running water for several minutes. If symptoms persist, obtain medical attention.

If swallowed : Rinse mouth with water. If symptoms persist, obtain medical attention.

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

Notes to physician : No information available.

## SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Use carbon dioxide ($CO_2$), extinguishing powder or water spray. In case of large fires use water spray or alcohol resistant foam, or use extinguishing measures appropriate to local circumstances and surrounding environment.

Specific hazards during fire fighting : No specific hazards identified.

Hazardous combustion products : No hazardous combustion products are known.

Specific extinguishing methods : No specific extinguishing methods required.

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 as necessary in the event of a chemical fire.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

| | | |
|---|---|---|
| Personal precautions, protective equipment and emergency procedures | : | Use personal protective equipment (see Section 8).<br>No special precautions necessary. |
| Methods and materials for containment and cleaning up | : | Keep in suitable, closed containers for disposal. Absorb spills with liquid-binding material (sand, diatomite, universal binders, sawdust, etc.) Do not allow to enter sewers, surface or ground water. |

## SECTION 7. HANDLING AND STORAGE

| | | |
|---|---|---|
| Advice on safe handling | : | No special precautions. Use good laboratory practices.<br>For personal protection information, see Section 8. |
| Conditions for safe storage | : | Store according to the product label. |

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Ingredients with workplace control parameters**

| Ingredients | CAS-No. | Basis | Value type (form of exposure) | Control parameters/ Permissible concentrations |
|---|---|---|---|---|
| Glycerol | 56-81-5 | OSHA: 29 CFR 1910.1000 Table Z-1 Limits for Air contaminants | PEL-TWA (mist, respirable fraction) | 5 mg/m3 |
| | | | PEL-TWA (mist, total dust) | 15 mg/m3 |

**Engineering Controls**

No special engineering controls required. Use with good general ventilation.

**Personal Protective Equipment (PPE)**

| | | |
|---|---|---|
| Eye protection | : | Wear safety glasses or chemical goggles to prevent eye contact. |
| Skin and body protection | : | Protective clothing, impervious gloves and footwear protecting against chemicals recommended.<br><br>Note: To choose an appropriate glove, review the information given by the glove manufacturer concerning permeability and break through times. Also, consider special workplace conditions (mechanical strain, duration of contact). |
| Respiratory protection | : | Under normal conditions, this material does not require respiratory protection. |
| Hygiene measures | : | Keep away from food and drink. When using do not eat, drink, or smoke. |

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| | | |
|---|---|---|
| Appearance | : | Liquid |
| Color | : | Colorless |
| Odor | : | Characteristic |
| Odor Threshold | : | No data available |
| pH | : | No data available |
| Melting point/range | : | No data available |
| Boiling point/boiling range | : | No data available |
| Flash point | : | Not applicable |
| Evaporation rate | : | No data available |
| Flammability (liquid, gas) | : | Not applicable |
| 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 | : | No data available |
| Solubility(ies) | | |
| Water solubility | : | Fully miscible |
| Solubility in other solvents | : | No data available |
| Partition coefficient: n-octanol/water | : | No data available |
| Autoignition temperature | : | Not applicable |
| Decomposition temperature | : | No data available |
| Viscosity | : | No data available |
| Viscosity, dynamic | : | No data available |
| Viscosity, kinematic | : | No data available |
| Explosive properties | : | No data available |
| 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. |
| Conditions to avoid | : | No data available |
| Incompatible materials | : | No data available |
| Hazardous decomposition products | : | No decomposition if stored and applied as directed. |

## 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 |

**Hazardous Ingredients (Pure Substance)**

| | | |
|---|---|---|
| Glycerol (CAS# 56-81-5) | : | LD50 Oral Rat 12,000 mg/kg, LD50 Dermal Rabbit 10,000 mg/kg |

**Skin corrosion/irritation**

| | | |
|---|---|---|
| **Product** | : | Not classified based on available information. May cause skin irritation in susceptible persons. |

**Hazardous Ingredients (Pure Substance)**

| | | |
|---|---|---|
| Glycerol (CAS# 56-81-5) | : | Species: Rabbit; Exposure time: 24 h; Result: Mild skin irritation |

**Serious eye damage/eye irritation**

| | | |
|---|---|---|
| **Product** | : | Not classified based on available information. May irritate eyes. |

**Hazardous Ingredients (Pure Substance)**

| | | |
|---|---|---|
| Glycerol (CAS# 56-81-5) | : | Species: Rabbit; Exposure time: 24 h; Result: Mild eye irritation |

| | | |
|---|---|---|
| **Respiratory or skin sensitization** | : | No data availabie |
| **Germ cell mutagenicity** | : | No data availabie |
| **Carcinogenicity** | : | No ingredient in this product is listed as a carcinogen by IARC, NTP or OSHA |

| | | |
|---|---|---|
| **Reproductive toxicity** | : | No data available |
| **STOT-single exposure** | : | No data available |
| **STOT-repeated exposure** | : | No data available |
| **Aspiration toxicity** | : | No data available |
| **Further information** | : | No further information. |

## SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

**Product**

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

**Hazardous Ingredients (Pure Substance)**

| | | |
|---|---|---|
| Glycerol (CAS# 56-81-5) - Toxicity to fish | : | LC0 (Leuciscus idus (Golden orfe)): > 250 mg/l Exposure time: 48h |

| | | |
|---|---|---|
| **Persistance and degradability** | | No data available |
| **Bioaccumulative potential** | | |
| Bioaccumulation | : | No data available |
| Partition coefficient: n-octanol/water | : | No data available |
| **Mobility in soil** | : | No data available |
| **Other adverse effects** | : | No data available |

## SECTION 13. DISPOSAL CONSIDERATIONS

| | | |
|---|---|---|
| **Product waste disposal** | : | Dispose of waste product, unused product and contaminated packaging in compliance with federal, state and local regulations. If unsure of the applicable requirements, contact the authorities for information. |

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## SECTION 14. TRANSPORT INFORMATION

| | | |
|---|---|---|
| **UNRTDG** | : | Not classified as dangerous in the meaning of transport regulations |
| **IATA-DGR** | : | Not classified as dangerous in the meaning of transport regulations |
| **IMDG-Code** | : | Not classified as dangerous in the meaning of transport regulations |
| **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** | : | Not applicable |
| **Domestic Regulation (49 CFR)** | : | Not regulated as a dangerous good |
| **Special precautions for user:** | : | No special precautions identified. |

## SECTION 15. REGULATORY INFORMATION

### US Federal and State Regulations

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

**CERCLA Reportable Quantity (40 CFR 302.4)**

This material does not contain any components with a CERCLA RQ listed in Table 302.4.

**SARA 313**

Ammonium Sulphate (CAS# 7783-20-2)

**Section 355 (extremely hazardous substances)**

No ingredients are listed.

**TSCA (Toxic Substances Control Act) Inventory)**

Tris HCl (CAS# 1185-53-1), Glycerol (CAS# 56-81-5)

**California Prop 65**

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

## SECTION 16. OTHER INFORMATION

**Further Information**

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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