



iRepertoire, Inc.

iRepertoire on Cassette Kit (**iRock**) File 1 of 3: PCR1 Rxn Mix

Safety Data Sheet

V20201029



iRepertoire, Inc.

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

Recommended use of the chemicals and restrictions on use

Recommended use : Laboratory chemicals

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.



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.
- 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 ³
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. Hazardous decomposition products formed under fire conditions 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.

SECTION 11. TOXOLOGICAL INFORMATION

Acute toxicity

Ingredients

Tris(hydroxymethyl)aminomethane

Acute oral toxicity	: LD50 Oral Rat: 5,900 mg/kg
Acute inhalation toxicity	: No data available
Acute dermal toxicity	: LD50 Rat: > 5,000 mg/kg Method: OECD Test Guideline 402

Skin corrosion/irritation

Product

May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation

Product

Remarks: May irritate eyes.

Respiratory or skin sensitization	: No data availability
Germ cell mutagenicity	: No data availability
Carcinogenicity	: No data availability
Reproductive toxicity	: No data availability



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STOT-single exposure	: No data availability
STOT-repeated exposure	: No data availability
Aspiration toxicity	: No data availability
Further information	: No data availability

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Ingredients:

Tris(hydroxymethyl)aminomethane

Toxicity to fish	: No data available
Toxicity to algae	: No data available
Toxicity to bacteria	: No data available
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia): 980 mg/l; Exposure time: 48 h
Persistence and degradability	: No data available

Bioaccumulative potential

Product

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

Disposal methods

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



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

SECTION 15. REGULATORY INFORMATION

OSHA Hazards : No OSHA Hazards

EPCRA-Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

Ingredient	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

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 I Intermediate or Final VOC's (40 CFR 60.489).



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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

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

New Jersey Right to Know

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.

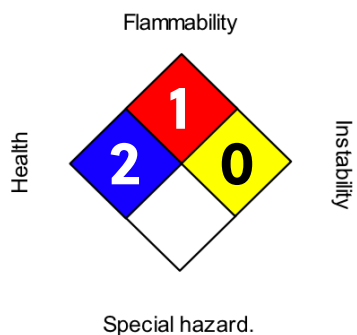


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SECTION 16. OTHER INFORMATION

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.