

iR-Profile Reagent Kit: PCR 1 Rxn Mix

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name : PCR1 Rxn Mix

Manufacturer's or suppliers detailsCompany : 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 EffectsAggravated 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.

iR-Profile Reagent Kit: PCR 1 Rxn Mix

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.

iR-Profile Reagent Kit: PCR 1 Rxn Mix

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.

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.

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.

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).
---------	---	---

iR-Profile Reagent Kit: PCR 1 Rxn Mix

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. Wash hands before breaks and at the end of workday. Ensure adequate ventilation, especially in confined areas. Avoid contact with the skin and the eyes. When using do not eat, drink or smoke.

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

iR-Profile Reagent Kit: PCR 1 Rxn Mix

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****Product**

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

Ingredients:**Tris(hydroxymethyl)aminomethane**

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

Skin corrosion/irritation**Product**

May cause skin irritation and/or dermatitis

Serious eye damage/eye irritation**Product**

Remarks:

May irritate eyes.

Respiratory or skin sensitization

No data availability

Germ cell mutagenicity

No data availability

iR-Profile Reagent Kit: PCR 1 Rxn Mix

Carcinogenicity

No data available

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 data available

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**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

iR-Profile Reagent Kit: PCR 1 Rxn Mix

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.

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

No data available

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 : 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

iR-Profile Reagent Kit: PCR 1 Rxn Mix

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).

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

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

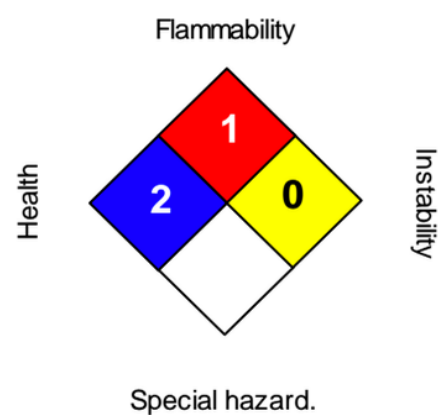
This product does not contain any of California to cause cancer, birth, or any other reproductive defects.

iR-Profile Reagent Kit: PCR 1 Rxn Mix

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.