iRepertoire, Inc.

iR-Profile Reagent Kit: PCR1 Rescue/PCR2 Clean-up

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: PCR1 Rescue/PCR2 Clean-up

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.

Other Hazard

Sodium azide forms explosive compounds with heavy metals. This product contains concentrations of azide <0.1% (w/w) which with repeated contact with lead and copper commonly found in plumbing drains may result in the build up of shock sensitive compounds.
iRepertoire, Inc.

iR-Profile Reagent Kit: PCR1 Rescue/PCR2 Clean-up

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: None

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, rinse mouth with water. If irritation or discomfort occurs, seek immediate medical attention. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed: See Section 11 Toxological Information for more detailed health information.
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: No combustion products posing significant hazards are expected from this product (an aqueous solution).
Hazardous combustion products: No hazardous combustion products are known
Specific extinguishing methods

Further Information

Special protective equipment for fire-fighters

In the event of fire and/or explosion do not breathe fumes.

Wear self-contained breathing apparatus for firefighting.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Methods and materials for containment and cleaning up

Use personal protective equipment.

Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

Absorb spilled material with an appropriate inert, non-flammable absorbent and dispose according to local regulations.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling

Conditions for safe storage, including any incompatibilities

For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the application area.

Keep away from incompatible material (see Section 10). To maintain efficacy, store according to the instructions in the product labeling.

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.
## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Brown with precipitate</td>
</tr>
<tr>
<td>Odor</td>
<td>odorless</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No applicable</td>
</tr>
<tr>
<td>pH</td>
<td>8.0-8.4</td>
</tr>
<tr>
<td>Melting point/range</td>
<td>Not determined</td>
</tr>
<tr>
<td>Boiling point/boiling range</td>
<td>Not determined</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Burning rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>No data available</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapor density</td>
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</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Density</td>
<td>1.127</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td></td>
</tr>
<tr>
<td>Water solubility</td>
<td>Miscible</td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>No data available</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No data available</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Thermal decomposition</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
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<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No data available</td>
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</table>

## SECTION 10. STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reactivity</td>
<td>None</td>
</tr>
<tr>
<td>Chemical stability</td>
<td>No decomposition if stored and applied as directed.</td>
</tr>
<tr>
<td>Possibility of hazardous reactions</td>
<td>Stable under recommended storage conditions.</td>
</tr>
<tr>
<td>Conditions to avoid</td>
<td>Avoid contact with incompatible materials.</td>
</tr>
</tbody>
</table>
Incompatible materials: Strong acids
Strong bases
Strong oxidizers
Metals and metallic compounds
Sodium azide forms explosive compounds with heavy metals. This product contains concentrations of azide <0.1% (w/w) which with repeated contact with lead and copper commonly found in plumbing drains may result in the build up of shock sensitive compounds.

Hazardous decomposition products: No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

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

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 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

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### SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

<table>
<thead>
<tr>
<th>Product</th>
<th>Toxicity to fish</th>
<th>Toxicity to algae</th>
<th>Toxicity to bacteria</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
</tbody>
</table>

#### Persistence and degradability
No data available

#### Bioaccumulative potential

<table>
<thead>
<tr>
<th>Product</th>
<th>Bioaccumulation</th>
<th>Partition coefficient: n-octanol/water</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No data available</td>
<td>No data available</td>
</tr>
</tbody>
</table>

#### Mobility in soil
No data available

#### Other adverse effects
No data available

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### 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.

Sodium azide preservative may form explosive compounds in metal drain lines. See NIOSH Bulletin: Explosive Azide Hazard (8/16/76).

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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
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 : No OSHA Hazards

EPCRA-Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity
Sodium Azide is listed.

SARA 304 Extremely Hazardous Substance Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Sodium Azide is subject to reporting requirements of Section 313, Title III of SARA. 1.0 % de minimis concentration

SARA 302 : Sodium Azide is subject to reporting requirements of Section 313, Title III of SARA. 1.0 % de minimis concentration

SARA 313 : Sodium Azide is subject to reporting requirements of Section 313, Title III of SARA. 1.0 % de minimis concentration

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 SOCMl 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. Clean Water Act, Section 311, Table 116.4A. This product does not contain any Hazardous Chemicals listed under the U.S. Clean Water 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 State Regulations

Massachusetts Right to Know

Pennsylvania Right to Know

Sodium Azide

New Jersey Right to Know

Sodium Azide

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

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.