iRepertoire, Inc.

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name : PCR1 Rescue/PCR2 Clean-up

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 : 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. Sodium azide forms explosive compounds with heavy metals.

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.

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
Sodium Azide [1]	26628-22-8	<0.1% by wt [2]

[1] Hazard Classifications of Pure Substance: Acute Oral Toxicity 2, H300; Acute Aquatic 1, H400; Longterm Aquatic 1, H410

[2] Present at a concentration below the cut-off limits

SECTION 4. FIRST MEASURES

General advice	:	Show this material safety data sheet to the doctor in attendance.
If inhaled	:	Move to fresh air. If exposed individual is not breathing, begin artificial respiration by trained personnel and obtain medical attention immediately.
In case of skin contact	:	Rinse with water as a precaution.
In case of eye contact	:	Rinse eyes with water as a precaution.
If swallowed	:	Rinse mouth with water. If irritation or discomfort occurs, obtain medical attention.
Most important symptoms and effects, both acute and delayed	:	No adverse symptoms or effects identified.
Notes to physician	:	No specific medical attention or treatment required.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Use carbon dioxide (CO_2), dry chemical, water spray or foam. In case of large fires use extinguishing measures that are appropriate to local circumstances and the 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). No special precautions necessary.
Methods and materials for containment and cleaning up	:	Contain spill to prevent migration. Absorb spilled material with an appropriate inert, non-flammable absorbent and dispose according to local regulations. Do not allow undiluted product to enter sewers/surface or ground water.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling	:	No special precautions. Use good laboratory practices. For personal protection information, see section 8.
Conditions for safe storage, including any incompatibilities	:	Store according to the product label. Store away from strong acids, strong bases, strong oxidizers and incompatible materials (see section 10).

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

US OSHA - None Established

ACGIH - Sodium Azide (CAS # 26628-22-8) 0.29 mg/m3 Ceiling (as Sodium azide); 0.11 ppm Ceiling (as Hydrazoic acid vapor)

DFG MAK - None Established

Ireland - Sodium Azide (CAS # 26628-22-8) 0.1 mg/m3 TWA, 0.3 mg/m3 STEL, Potential for cutaneous absorption

IOELVS - Sodium Azide (CAS # 26628-22-8) Possibility of significant uptake through the skin, 0.3mg/m3 STEL, 0.1 mg/m3 TWA

NIOSH - None established

Japan - None Established

Sweden (AFS 2015:7 and amendments) - Sodium Azide (CAS # 26628-22-8) 0.1 mg/m3 TLV, 0.3 mg/m3 Binding STEL

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	:	Wear protective clothing and impervious gloves (for aqueous solution), as appropriate. Footwear protecting against chemicals recommended. 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	:	Brown with precipitate
Odor	:	Odorless
Odor Threshold	:	Not applicable
pH	:	8.0 - 8.4
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	Not applicable
Evaporation rate	:	No data available
Flammability (vapor, 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	:	Miscible
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Autoignition temperature	:	Not applicable
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 data available
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	Sodium azide forms explosive compounds with heavy metals. Repeated contact of low concentrations of azide with lead and coper commonly found in plumbing drains may result in the build up of shock sensitive compounds.
Conditions to avoid	:	Keep away from strong acids, strong bases, and strong oxidizers to maintain product performance. Avoid contact with incompatible materials. Avoid exposure to heat and direct sunlight.
Incompatible materials	:	Metals and metallic compounds
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)

Sodium Azide (CAS# 26628-22-8)	:	LD50 Oral Rat 27 mg/kg, LD50 Dermal Rabbit 20 mg/kg
Skin corrosion/irritation	:	Not classified based on available data.
Serious eye damage/eye irritation	:	Not classified based on available data.
Respiratory or skin sensitization	:	Not classified based on available data.
Germ cell mutagenicity	:	Not classified based on available data.
Carcinogenicity	:	No ingredient in this product is listed as a carcinogen by ACGIH, IARC, NTP, OSHA or 1272/2008 EC Regulation.
Reproductive toxicity	:	Not classified based on available data.
STOT-single exposure	:	Not classified based on available data.
STOT-repeated exposure	:	Not classified based on available data.
Aspiration toxicity	:	Not classified based on available data.
Further information	:	No further information.

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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

Hazardous Ingredients (Pure Substance)

Sodium Azide (CAS # 26628-22-8) - Toxicity to fish	:	96 h LC50 Onchorhynchus mykiss: 0.8 mg/L 96 h LC50 Lepomis macrochirus: 0.7 mg/L 96 h LC50 Pimephales promelas: 5.46 mg/L (flow-through)
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	:	This material contains an environmentally hazardous substance below the cutoff level (See section 3 for information). Do not allow undiluted material to enter sewer/surface or ground water.

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.

Suggested European waste catalogue 18 01 07 - chemicals other than those mentioned in 18 01 06.

Sodium azide preservative may form explosive compounds in metal drain lines. See NIOSH Bulletin: Explosive Azide Hazard (8/16/76). Ensure sodium azide disposal is performed in accordance with appropriate local regulations.

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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)

Sodium Azide (CAS # 26628-22-8)

SARA 313

Sodium Azide (CAS # 26628-22-8) : 1.0% de minimis concentration [1]

[1] Present in product at a concentration below the cut-off limits

Massachusetts Right to Know

Sodium Azide (CAS # 26628-22-8)

Pennsylvania Right to Know

Sodium Azide (CAS # 26628-22-8)

New Jersey Right to Know

Sodium Azide (CAS # 26628-22-8)

California Prop 65

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

EU Regulations

REACH 1907/2006 EC - Annex XIV - list of substances subject to authorization

No ingredients listed

Canada

This product does not meet WHMIS criteria for hazardous materials.

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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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