

Neutralization Buffer

Version 1.1

Revision Date 6/20/2020

Print Date: 6/20/20

Section 1. Identification

Product Name: Neutralization Buffer

Product number: NB01, NB02, NB03

Manufacturer or suppliers' details

Company: Life Magnetics, Inc.

Address: 440 Burroughs Suite 520, Detroit MI 48202

Phone: (734)673-8405

E-mail: info@magnetics.life**Recommended use of the chemicals and restrictions on use**

Recommended use: Laboratory chemicals

Section 2. Hazards Identification**2.1 Classification of the substance or mixture****GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

Eye damage/irritation (Category 1), H318

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

H318

Causes serious eye damage

Precautionary statement(s)

P280

Wear eye protection/ face protection.

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310

Immediately call poison center or physician.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS – none

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SECTION 3. Composition/Information on Ingredients

Substance/Mixture: Mixture
Substance Name: Citric Acid

Hazardous Ingredient

Chemical Name	CAS-No.	Concentration (% w/w)
Citric Acid	77-92-9	>=10 - < 30

SECTION 4. First Aid Measures

General Advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If Inhaled: Not expected to require first aid. Move to fresh air, if not breathing give artificial respiration.

In case of skin contact: Wash off with soap and water.

In case of eye contact: Flush eye with water. Remove contact lenses, if present and easy to do. Continue rinsing.

If swallowed: Rinse mouth with water. Do not induce vomiting.

Most important symptoms and effects, both acute and delayed: Does not present any significant health hazards. May cause slight irritation to areas of contact. Wash areas of contact with water. EYE CONTACT: may cause irritation.

Notes to physician: No information available.

SECTION 5. Fire Fighting Measures

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Specific hazards during fire-fighting: Not considered to be a fire or explosive hazard.

Hazardous combustion products: No combustion products.

Specific extinguishing methods: In the event of fire do not breath fumes.

Special protective equipment: Wear self-contained breathing apparatus for fire-fighting 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.

Environmental precautions:

No specific environmental precautions

Methods and materials for containment and cleaning up:

Absorb with suitable material. Keep in suitable closed container for disposal.

SECTION 7. Handling and Storage

Advice on protection against fire and explosion:

Normal measures for preventative fire protection.

Advice on safe handling:

Wear appropriate personal protective equipment.

Conditions for safe storage:

Keep container tightly closed in a dry and well-ventilated place.

SECTION 8. Exposure Controls/Personal Protection

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Personal Protective Equipment

Hand Protection Material:

Protective gloves.

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).

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Eye Protection:	Tightly fitting safety goggles. Wear face-shield and protective suit for abnormal processing problems. Do not wear contact lenses. Ensure that eyewash stations and safety showers are close to the workstation location.	
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.	
Hygiene Measures:	Keep away from food and drink. Wash hands before breaks and at the end of workday. When using do not eat, drink or smoke.	

SECTION 9. Physical and Chemical Properties

Appearance:	liquid
Color:	colorless
Odor:	No data available
Odor threshold:	No data available
pH:	<2
Melting point/range	0.0 °C
Boiling point/boiling range	100.0 °C
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	1.08 g/cm ³ (at 25 °C)
Solubility(ies)	
- Water solubility	Miscible
- Solubility in other solvents	No data available
Partition coefficient: n-octanol/water	No data available
Autoignition temperature:	No data available

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Decomposition temperature:	No data available	
Viscosity:		
- Viscosity, dynamic	No data available	
- Viscosity, kinematic	No data available	
Explosive properties:	No data available	
Oxidizing properties:	No data available	

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

SECTION 11. Toxicological Information**Acute toxicity**

May be harmful if swallowed

Product:

Acute oral toxicity:	LD50, Oral, Rat: (Citric Acid) 3 g/kg
Acute inhalation toxicity:	No data available
Acute dermal toxicity:	Skin irritation, rabbit: 500 mg/24H, mild. Eye irritation, rabbit 750 ug/24H, severe.

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

Causes serious eye damage. Wear protective gloves and eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

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Respiratory or skin sensitization

No data available

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

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.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Further information

To the best of our knowledge the chemical physical and toxicological properties have not been thoroughly Investigated.

SECTION 12. Ecological Information

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

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12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

SECTION 13: Disposal Considerations

Disposal methods

Offer surplus and non-recyclable solutions to a licensed disposal company.

SECTION 14: Transport Information

DOT(US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods
