

Version 13 - Revision Date 03/14/2019

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:

• Pure & Conjugated Antibodies and Streptavidin

Product Details:

- Purified monoclonal and polyclonal antibodies of mouse, hamster, goat, donkey or rabbit origin.
- Antibody and Protein conjugates to the following molecules:
 - Allophycocyanine (APC) and its tandem dye APC-Cyanine7
 - o Biotin
 - Fluorescein isothiocyanate (FITC)
 - Phycoerythrin (R-PE) and its tandem dyes PE-Cyanine5, PE-Cyanine7
 - o Peridinin chlorophyll protein (PerCP) and it tandem dye PerCP-Cyanine5.5
 - o redFluor™ 710
 - o violetFluor™ 450
- Usage: Research Use Only (RUO)

Brand: Tonbo Biosciences
Supplier: Tonbo Biosciences

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Preparation Information: Tonbo Biosciences Product Safety

+1 (855) 848-6626 toll-free

2. HAZARDS IDENTIFICATION

Emergency Overview

OSHA Hazards

No known OSHA hazards

Not a dangerous substance or mixture according to the Globally Harmonised System (GHS)

HMIS Classification

Health Hazard: 2

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Chronic Health Hazard: 0
Flammability: 0
Physical Hazards: 0

NFPA Rating

Health Hazard: 2
Fire: 0
Reactivity Hazard: 0

Potential Health Effects

InhalationMay be harmful if inhaled. May cause respiratory tract irritation.SkinMay be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation. **Ingestion** May be harmful if swallowed.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Aqueous liquid solution composed of antibody with less than 0.1% sodium azide. No ingredients are hazardous or the concentration of all chemicals are below the regulatory threshold limits according to OSHA criteria.

4. FIRST AID MEASURES

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. If breathing is difficult give oxygen and consult a physician.

In case of skin contact

Wash off immediately with soap and plenty of water, remove any contaminated clothing, and consult a physician.

In case of eye contact

Flush eyes with water for at least 15 minutes and consult a physician.

If swallowed

Rinse mouth with water and consult a physician immediately.

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5. FIREFIGHTING MEASURES

Conditions of flammability

Not flammable or combustible.

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Hazardous combustion products

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid breathing vapors, mist or gas.

Environmental precautions

No special environmental precautions required.

Methods and materials for containment and cleaning up

Use a damp mop or sponge to clean up spill and surrounding area. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Conditions for safe storage

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

Recommended storage temperature: 2 - 8 °C

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Special requirement: Light sensitive.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures

General industrial hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form liquid

Color no data available

Safety data

pH no data available
Melting point/freezing point no data available
Boiling point no data available
Flash point no data available
Ignition temperature no data available
Autoignition temperature no data available

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Lower explosion limit no data available Upper explosion limit no data available Vapour pressure no data available Density no data available Water solubility no data available Partition coefficient: n-octanol/water no data available Relative vapour density no data available Odour no data available Odour Threshold no data available no data available Evaporation rate

10. STABILITY AND REACTIVITY

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

no data available

Conditions to avoid

Prolonged light exposure may affect product performance or quality.

Materials to avoid

Acidic material and metals and strong oxidizers. Sodium azide may react with metallic plumbing and form explosive metal azides.

Hazardous decomposition products

Other decomposition products - no data available

11. TOXICOLOGICAL INFORMATION

Acute toxicity
Oral LD50
Inhalation LC50

no data available

Dermal LD50
Other information on acute toxicity

no data available

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Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

Eyes: no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as

probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a

known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a

carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

no data available

Teratogenicity

no data available

Specific target organ toxicity - single exposure (Globally Harmonized System)

no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System)

no data available

Aspiration hazard

no data available

Potential health effects

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Ingestion May be harmful if swallowed.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.

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Signs and Symptoms of Exposure

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

Synergistic effects

no data available

Additional Information

RTECS: Not available

12. ECOLOGICAL INFORMATION

Toxicity

no data available

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

PBT and vPvB assessment

no data available

Other adverse effects

no data available

13. DISPOSAL CONSIDERATIONS

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dispose of product in accordance with federal, state and local regulations.

Contaminated packaging

Dispose of as unused product in accordance with federal, state and local regulations.

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14. TRANSPORT INFORMATION

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

15. REGULATORY INFORMATION

OSHA Hazards

No known OSHA hazards

SARA 302 Components

The following components are subject to reporting levels established by SARA Title III, Section 302:

CAS-No. Revision Date

Sodium azide 26628-22-8 2007-07-01

SARA 313 Components

SARA 313: 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.

SARA 311/312 Hazards

No SARA Hazards

Reportable Quantity lowest RQ > 999999 lbs

lowest RQ > 999999 lbs

Massachusetts Right To Know Components

Sodium azide CAS-No. Revision Date 26628-22-8 2007-07-01

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Pennsylvania Right To Know Components

CAS-No. Revision Date

Water 7732-18-5

Sodium azide 26628-22-8 2007-07-01

New Jersey Right To Know Components

CAS-No. Revision Date

Water 7732-18-5

Sodium azide 26628-22-8 2007-07-01

California Prop. 65 Components

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

16. OTHER INFORMATION

Further information

Copyright 2013 Tonbo Biosciences. License granted to make unlimited paper copies for internal use only. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Tonbo Biosciences and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.tonbobio.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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