

Hypoxyprobe Red549 MAb

**[Anti-pimonidazole mouse monoclonal IgG1 antibody clone 4.3.11.3
conjugated to Dylight 549 Dye]**

Material Safety Data Sheet

December 2015

Material Safety Data Sheet

Date: 12_15_2015

Section 1 - Product and Company Information

Product Name	Dylight 549 dye conjugated mouse IgG1 anti-pimonidazole monoclonal antibody clone 4.3.11.3
Brand Name	Hypoxyprobe Red549
Company	Hypoxyprobe, Inc (HPI)
Street Address	121 Middlesex Turnpike
City, State, Zip, Country	Burlington, MA 01803, USA
Technical Phone:	919-260-6398
Fax	781-272-9288
e-mail	tleee@natural-pharma.com ;

Section 2 – Composition/Information on Ingredients

Substance Name	Mouse IgG1 anti-pimonidazole monoclonal antibody clone 4.3.11.3 conjugated to Dylight 549 dye.
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Section 3 – Hazards Identification

Material contains less than 0.1% sodium azide

Emergency Overview

Sodium azide (0.09%) may react with lead and copper plumbing to form highly explosive metal azides.

HMIS Rating	Flammability 0	Reactivity 0
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NFPA Rating	Flammability 0	Reactivity 0
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Section 4 – First Aid Measures

Oral Exposure

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Inhalation Exposure

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

Dermal Exposure

In case of contact, immediately wash skin with soap and copious amounts of water.

Eye Exposure

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

Section 5 – Fire Fighting Measures

Auto-ignition Temp:	N/A
Flammability:	N/A
Extinguishing Media Suitable:	Water spray. Carbon dioxide, dry chemical powder, or foam.
Firefighting Protective Equipment:	Wear protective clothing to prevent contact with body.
Exposure Hazard(s) Material:	Emits toxic fumes under fire conditions

Section 6 – Accident Release Measures

Procedure(s) of Personal Precaution(s)

Wear gloves.

Methods for Cleaning Up

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Section 7 – Handling and Storage

Handling: User Exposure

Avoid unnecessary contact. Do not get in eyes, on skin, on clothing.

Storage

Keep tightly closed. Store frozen.

Section 8 – Exposure Controls/PPE

Engineering Controls: Safety shower and eye bath.

Personal Protective Equipment

Hand: Gloves.
Eye: Chemical safety goggles.

General Hygiene Measures: Wash after handling.
Wash contaminated clothing before reuse.

Section 9 – Physical/Chemical Properties

Appearance

Color: Green colored solution in antibody diluent.
Form: Aqueous liquid

Section 9 – Physical/Chemical Properties (cont'd)

<u>Property</u>	<u>Value</u>
pH	7.0
BP/BP Range	N/A
MP/MP Range	N/A
Freezing Point	0°C
Vapor Pressure	N/A
Vapor Density	N/A
Saturated Vapor Conc.	N/A
SG/Density	N/A
Bulk Density	N/A
Odor Threshold	N/A
Volatile %	N/A
VOC Content	N/A
Water Content	99.9%
Solvent Content	N/A
Evaporation Rate	N/A
Viscosity	N/A
Partition Coefficient	N/A
Decomposition Temp.	N/A
Flash Point °F	N/A
Flash Point °C	N/A
Explosion Limits	N/A
Autoignition Temp	N/A
Solubility	!00% in aqueous solutions.

Section 10 – Stability and Reactivity

Stability: Stable for at least 12 months stored at 4°C.

Materials to Avoid: Dimethyl sulfate, acid chlorides and halogenated solvents are incompatible with azide. Avoid contact with metals and acid.

Hazardous Heat Decomposition Products: Not known.

Section 11 – Toxicological Information

Route of Exposure

Multiple Routes: Harmful if swallowed, inhaled, or absorbed through skin in high dosages

Section 12 – Ecological Information

No data available.

Section 13 – Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation

Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state and local environmental regulations.

Section 14 – Transport Information

DOT

Proper Shipping Name: None

Packing Group: None

Non-hazardous for shipping: This material is considered to be non-hazardous for transport.

IATA

Non-hazardous for Air Transport: This material is non-hazardous for air transport.

Section 15 – Regulatory Information

US Classification and Label Text

Indication of Danger

Sodium azide (0.09%) may react with lead and copper plumbing to form highly explosive metal azides.

Risk Statements

Harmful if swallowed in large quantity.

Safety Statements

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

United States Regulatory Information

SARA 313 Listed: No

Canada Regulatory Information

WHMIS Classification

This material has been classified in accordance with the hazard criteria of the CPR and to the best of our knowledge, the MSDS contains all the information required by the CPR.

Section 16 – Other Information

Warranty

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. It does not guarantee the properties of the product. HPI Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.