



1. Product and Company Identification

Product(s)	Concentrated Antibodies (#####-MSM#-P#, #####-RBM#-P#, #####-RBP#-P#, MSM#-###-BC#) Prediluted Antibodies (#####-MSM#-IHC#, #####-RBM#-IHC#, #####-RBP#-IHC#); Conjugated Antibodies (#####-#####-CF###-100T)
Intended Use & Restrictions	Immunohistochemistry reagent intended for use by professional laboratory personnel that have been trained in its use.
Company Information	NeoBiotechnologies, Inc. 2 Union Square Union City, CA 94587 Tel: 510-376-5603 www.neobiotechnologies.com
24 Hour Emergency Contact	CHEMTREC +1 800-424-9300 (USA and Canada only) +1 703-527-3887 (all other countries) Not Hazardous.
OSHA Hazards	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
GHS Classification Signal words, Symbol, Hazard & Precautionary Statements	Not Hazardous Skin Contact – May Be harmful if exposed to skin. May cause skin irritation, itching, redness or inflammation. Eye Contact - May be harmful if exposed to eyes. May cause eye irritation, watering eyes, stinging or burning sensation. Inhalation – May be harmful if inhaled. May cause respiratory tract irritation, headache, dizziness, nausea or coughing. Ingestion – May be harmful if swallowed. May cause irritation of gastrointestinal tract, nausea, or vomiting. See Section 11: Toxicological Information for additional information.
Potential Health Effects	

2. Hazards Identification

Emergency Overview	This product has been classified as non-hazardous based on the physical and/or chemical nature and/or concentration of ingredients. Product has little to no hazards for Emergency Responders if spilled and has no unusual hazard if in a fire. Sodium azide (<0.1%) is included as a preservative. Although it is not considered hazardous at this level, please note that accumulated sodium
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Environmental Effects

azide may react with lead or copper plumbing to form highly explosive metal azides. Thorough flushing of plumbing is recommended.

None identified.

See Section 12: Ecological Information for additional information.

3. Composition / Information on Ingredients

Chemical Name	Synonyms	% Composition	CAS Number
Sodium azide	N/A	< 0.1%	26628-22-8
Proprietary	Multiple		
Composition	N/A	< 1% each	N/A
Water	N/A	>99%	7732-18-5

Note: It has been determined that the remaining ingredients of this product are not classified as hazardous according to the Federal OSHA Hazardous Communication Standard (29 CFR 1910.1200) or the Globally Harmonized System of Classification and Labeling of Chemicals.

4. First Aid Measures

General Advice

Avoid further exposure to product. Consult a physician.

In case of skin contact

Wash exposed area with soap and plenty of water. Remove any contaminated clothing. Seek medical attention.

In case of eye contact

Wash eyes with plenty of water for at least 15 minutes. Have victim remove contact lenses. Be sure to wash under eyelids. Seek medical attention.

If inhaled

If swallowed

Remove victim to well-ventilated area. If victim is not breathing, give artificial respiration. Seek medical attention.

If victim is conscious, rinse mouth with water. Do not give anything to an unconscious victim. Seek medical attention.

5. Fire Fighting Measures

Suitable Extinguishable Media – Water spray, alcohol resistant foam, dry chemical or carbon dioxide. Use extinguisher media appropriate for surrounding fire

Special Protective Equipment for Firefighters – Wear self-contained breathing apparatus and protective clothing to prevent contact with eyes and skin.

Special Exposure Hazards – None identified.



6. Accidental Release Measures

Personal Precautions – Use of personal protective equipment is recommended as described in Section 8. Isolate hazard area and deny entry to unprotected personnel.

Environmental Precautions – Prevent further leakage or spillage if safe to do so. Keep out of drains, sewers, ditches and waterways.

Methods for containment and clean up - Small spills may be contained and cleaned-up with paper towels or absorbent pads. Absorb large spills with sand or vermiculite and place in a closed container for waste disposal. Avoid physical contact during removal.

7. Handling and Storage

Precautions for Safe Handling - Avoid contact with eyes, skin and clothing. Do not ingest. Wash hands thoroughly after use.

Conditions for Safe Storage - Keep container tightly closed. Keep container in a cool, well-ventilated area.

8. Exposure Controls / Personal Protection

Permissible Exposure Limits

Component	Permissible Exposure Limit(s)
Sodium Azide	ACGIH, TLV: 0.29 mg/m ³ , ceiling NIOSH, REL-C: 0.3 mg/m ³ , skin

Engineering Controls – None needed.

Wear chemical splash goggles and/or face shield when eye and face contact is possible due to splashing or spraying of material.

Eye Protection – Wear chemical splash goggles and/or face shield when eye and face contact is possible due to splashing or spraying of material.

Skin Protection – Use chemically resistant gloves and a lab coat with sleeves.

Respiratory Protection – Exceeding exposure limits is unlikely during normal usage. However, if irritating vapors are produced, respiratory protection is recommended. Attempt to reduce exposure levels to an acceptable range.

General Hygiene Measures – Avoid contact with eyes, skin and clothing. Wash hands thoroughly after handling and before eating or drinking.

9. Physical and Chemical Properties

Appearance - Clear solution. May be colorless or colored (green, red, yellow, tan), depending upon the specific product.

Odor – None

pH (as supplied) – Various

Melting point – No data available

Boiling point – No data available

Flash point – No data available

Flammability – No data available

Lower explosion limit – No data available

Upper explosion limit – No data available



Vapor pressure – No data available

Vapor density – No data available

Specific gravity – No data available

Solubility – (in water)

Soluble Partition coefficient (n-octanol/water) – No data available

Auto-ignition temperature – No data available

Decomposition – No data available

10. Stability and Reactivity

Chemical Stability – Stable under recommended storage conditions (see Section 7)

Conditions to avoid – Avoid buildup of sodium azide in copper or lead plumbing. Thorough flushing of plumbing with water is recommended.

Materials to avoid – Contact of sodium azide with heavy metals may form explosive azides. Contact of sodium azide with acids may liberate toxic gas.

Hazardous decomposition products – Hazardous decomposition products formed under fire conditions: carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen chloride gas.

Possibility of hazardous – reactions Contact of sodium azide with heavy metals may form explosive azides. Contact of sodium azide with acids may liberate toxic gas.

11. Toxicological Information

Acute dose effects – No data available

Repeat dose effects – No data available

Skin irritation – Not determined

Skin and respiratory sensitization – Not determined

Eye irritation – Not determined

Carcinogenicity – No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible, potential, known, anticipated, or confirmed carcinogen by IARC, ACGIH, NTP, or OSHA.

Mutagenicity – No data available

Reproductive effects – No data available

Developmental effects – No data available

Target organ effects – No data available

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

12. Ecological Information

Ecotoxicity – No data available

Persistence and degradability – No data available

Bioaccumulation/ accumulation – No data available

Mobility in environmental media – No data available

Other hazardous effects – May be harmful to the environment, particularly aquatic organisms.



13. Disposal Considerations

Product – Disposal should be in accordance with applicable national, state, and local laws and regulations. Local regulations may be more stringent than national or state requirements. Verify local and state regulations before discharging into public sewers or landfills. Do not dump into any body of water. Contact a licensed professional waste disposal service for appropriate methods of disposal.

Contaminated packaging – Dispose of as unused product.

14. Transportation Information

Proper shipping name – N/A

Technical Name – N/A

Hazard Class – N/A

Identification Number – N/A

Packing group – N/A

DOT (US) – Not regulated

IMDG – Not regulated

IATA – Not regulated

TDG – Not regulated

15. Regulatory Information

Inventory Status

United States (TSCA) – All ingredients are on the inventory or exempt from listing.

Canada (DSL / NDSL) – All ingredients are on the inventory or exempt from listing.

SARA 302 Components – Sodium azide: CAS 26628-22-8

SARA 313 Components – Sodium azide: CAS 26628-22-8, Concentration

SARA 311/312 Hazards – Sodium azide: Acute health hazard

California Prop. 65 components - This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

16. Other Information

Sources and Suitability - The above information was obtained from sources available at the time of revision and believed to be accurate and reliable. The information included is not intended to be all inclusive and should only be used as a guide. NeoBiotechnologies shall not be held liable for any damage resulting from use, handling, or contact with the above product.

Revision Data – October 30, 2017 (All SDS's before this date should be discarded.)

Replaces Revision - June 29, 2015. This SDS has been updated to reflect current hazard information and product formulations.

Note: Before using this product, please visit the NeoBiotechnologies Inc. website at <https://neobiotechnologies.com> for the current version of this SDS.