



Safety Data Sheet

Section 1: Product and Company Identification

1.1 Product Identifiers:

Product Names: Amine, Carboxyl, Biotin, Anti-Rabbit IgG, Anti-Mouse IgG, Anti-Human IgG, Protein A, Protein G, Streptavidin, Clean-Up and Size Select Magnetic Beads, DNA Purification Magnetic Beads; Silica Magnetic Beads

Product Codes: 544000, 544001, 544002, 544012, 544020, 544022, 544030, 544031, 544032, 544042, 544052, 544041, 544050, 544051, 544060, 544061, 544062, 544080, 544081, 544085, 544086, 544090, 544100, 544103, 544110, 544115

1.2 Identified Use: Isolation of target analytes in samples. **Restrictions on Use:** For research use only.

1.3 Company: Gold Standard Diagnostics, 124 Railroad Drive, Warminster, PA 18974 USA, info.abraxix@us.goldstandarddiagnostics.com +1(215) 357-3911, FAX +1(215) 357-5232

1.4 Emergency Telephone Number: +1(215) 357-3911

Section 2: Hazard(s) Identification

2.1 Classification of the mixture: Not a hazardous mixture.

2.2 GHS Label elements, including precautionary statements: Not applicable.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS: None known.

2.4 Unknown acute toxicity: None known.

Section 3: Composition / Information on Ingredients

3.2 Mixtures:

Hazardous Ingredients:		Hazard Classification of Pure Ingredients			
Chemical Name	% by wt.	EU-67/548/EEC	EU 1272-2008 CLP/GHS	GHS	
Sodium Azide CAS # 26628-22-8 EINECS # 247-852-1 Index # 011-004-00-7	<0.1	T+;R28-32N;R50/53	Acute Toxicity Oral 2 Aquatic Acute 1 Aquatic Long-term 1 H300; H400; H410	Acute Toxicity Oral 2 Aquatic Acute 1 Aquatic Long-term 1 H300; H400; H410	2, 8
2- Substance with Community workplace exposure limits					
8- Present at concentration below the cut-off limits					

Section 4: First Aid Measures

4.1 Description of first aid measures: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact: Wash off with soap and plenty of water. Consult a physician.

In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed: No data available

4.3 Indication of any immediate medical attention and special treatment needed: No data available. Treat symptomatically.

Section 5: Fire-fighting Measures

5.1 Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire.

5.2 Special hazards arising from the substance or mixture: None known

5.3 Advice for firefighters: Wear self-contained breathing apparatus for fire-fighting if necessary.

5.4 Further information: No data available

Section 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures: Use personal protective equipment (see section 8). Avoid dust formation. Avoid breathing vapors, mist, dust, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

6.2 Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up: Solids (if applicable): Pick up and arrange disposal without creating dust. Sweepup and shovel. Liquids (if applicable): Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Keep in suitable, closed containers for disposal.

6.4 Reference to other sections: For information on safe handling see section 7. For information on personal protection see section 8. For information on disposal see section 13.

Section 7: Handling and Storage

7.1 Precautions for safe handling: See section 2. Avoid inhalation of vapors and contact with skin and eyes. Wear appropriate personal protective equipment. Do not eat, drink, or smoke in work area.

7.2 Precautions for safe storage: Keep container(s) tightly closed in a dry, well-ventilated place. Protect from physical damage. See label or product insert for appropriate storage temperature and additional specific information.

Specific end use(s): No data available

Section 8: Exposure Controls / Personal Protection

8.1 Control parameters:

US OSHA None established ACGIH

Sodium Azide 0.29 mg/m³ Ceiling (as NaN₃); 0.11 ppm Ceiling (as Hydrazoic acid) (vapor) CAS # 26628-22-8

DFG MAK

Sodium Azide 0.4 mg/m³ Peak (inhalable fraction); 0.2 mg/m³ TWA MAK (inhalable fraction) CAS # 26628-22-8

Ireland

Sodium Azide 0.1 mg/m³ TWA (as NaN₃); 0.3 mg/m³ STEL (as NaN₃); Potential for cutaneous absorption CAS # 26628-22-8

IOELVs

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

NOISH None established

Japan None established

8.2 Exposure controls:

Appropriate engineering controls: Provide adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Keep away from food and beverages.

Personal protective equipment: The usual precautionary measures, including eye/face/skin protection, should be taken when handling any chemical. Avoid contact with eyes, skin, and clothing.

Eye protection: As with handling of any chemical, wear approved safety goggles.

Skin protection: Handle with gloves. No specific information regarding glove material or thickness is available, but gloves must be impermeable and resistant to the substance being handled. 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.

Respiratory protection: As with any chemical, where excessive vapor, mist, or dust may result, use a chemical fume hood or approved respiratory protection equipment.

Body protection: Lightweight, protective clothing.

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties of the mixture

Appearance: Multiple

Odor: Characteristic

Odor Threshold: No data available

pH: Multiple

Melting point/freezing point: No data available

Initial boiling point and boiling range: No data available

Flash point: No data available

Evaporation rate: No data available

Flammability (solid, gas): No data available

Upper/lower flammability or explosive limits: No data available

Vapor pressure: No data available

Vapor density: No data available

Relative density: No data available

Water solubility: Various

Partition coefficient: n-octanol/water: No data available

Auto-ignition temperature: Not applicable

Decomposition temperature: No data available

Viscosity: No data available

Explosive properties: No data available

Oxidizing properties: No data available

9.2 Other information: No data available

Section 10: Stability and Reactivity

10.1 Reactivity: No data available

10.2 Chemical stability: Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions: This product contains concentrations of azide below the hazardous level which with repeated contact with lead and copper commonly found in plumbing drains may result in the buildup of shock sensitive compounds, Sodium azide forms explosive compounds with heavy metals.

10.4 Conditions to avoid: Avoid contact with incompatible materials. Avoid exposure to heat and direct sunlight.

10.5 Incompatible materials: Metals and metallic compounds

10.6 Hazardous decomposition products: No decomposition products posing significant hazards would be expected from this product.

Section 11: Toxicological Information

11.1 Information on toxicological effects Toxicity Data for Hazardous Ingredients

Sodium azide Oral LD50 Rat 27 mg/kg; Dermal LD50 Rat 50mg/kg; Dermal LD50 Rabbit 20 mg/kg CAS # 26628-22-8

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Inhalation: No data available **Ingestion:** No data available
Skin contact: Irritant to skin and mucous membranes.
Eye contact: May cause eye irritation in susceptible persons. **Respiratory or skin sensitization:** No data available **Aspiration hazard:** No data available
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.
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
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.
Teratogenicity: No data available **Reproductive/fertility toxicity:** No data available
Specific target organ toxicity, single exposure: No data available
Specific target organ toxicity, repeated exposure: No data available

Section 12: Ecological Information

12.1 Toxicity:

Fresh Water Species

Sodium azide 96 h LC50 *Oncorhynchus mykiss*: 0.8 mg/L; 96 h LC50 *Lepomis macrochirus*: 0.7 mg/L; 96 h LC50 *Pimephales*

promelas: CAS # 26628-22-8 5.46 mg/L

Microtox No information available

Water Flea No information available
Fresh Water Algae No information available

12.2 Persistence and degradability: No data available

12.3 Bioaccumulative potential: No data available

12.4 Mobility in soil: No data available

12.5 Results of PBT and vPvB assessment: No data available

12.6 Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Section 13: Disposal Considerations

13.1 Waste treatment methods

Product: Chemical residues and remains should be routinely handled as special waste. This must be disposed of in compliance with anti-pollution and other laws of the country concerned. To ensure compliance we recommend contact of the relevant authorities. Sodium azide preservative may form explosive compounds in metal drain lines **Contaminated packaging:** All waste must be handled and disposed according to local, state, and federal regulations. Refer to sections 7 and 8 for safe handling guidance.

Section 14: Transport Information

UN Number: Goods are not regulated for transport for IAPA **UN Proper shipping name:** Not classified as dangerous in the meaning of transport regulations. **Transport hazard class(es):** No data available **Packing group:** No data available

Environmental hazard: No data available **Bulk transport:** No data available **Special considerations:** No data available

Section 15: Regulatory Information

US Federal and State Regulations

SARA 313 Sodium azide is subject to reporting requirements of section 313, title III of SARA. 1.0% de minimis concentration

CERCLA RG's, 40 CFR 302.4 Sodium azide is listed CA Prop 65 No ingredients listed

MA MSL Sodium azide is listed NJ Dept. Health RTK List Sodium azide is listed PA RTK Sodium azide is listed

EU Regulations

This SDS complies with EC Regulations 1907/2006 (REACH) and amendments Water Hazard Class (Germany) WGK 1, low water endangering REACH 1907/2006 EC – Annex XIV – List of substances subject to authorization – No ingredients listed According to EC Directives (1999/45/EC and 67/548 EEC) – No ingredients listed

Not classified as dangerous per EC Directives (1999/45/EC and 67/548 EEC)

Canada

This product does not meet WHMIS criteria for hazardous materials PIN N/A

Ingredients on Ingredients Disclosure List Sodium azide

Ingredients with unknown toxicological properties None

Section 16: Other information

Opinions expressed represent a best effort to present accurate information, the data are not to be taken as a warranty or representation for which Gold Standard Diagnostics assumes legal responsibility. The information shall not be taken as being all-inclusive and is to be used only as a guide. The data are offered solely for the user's consideration, investigation, and verification. These suggestions should not be confused with either state, municipal, or insurance requirements, or with national safety codes and constitute no warranty. Any use of these data and information must be determined by the user to be in accordance with applicable federal, state, and local regulations.

All materials and mixtures may present unknown hazards and should be used with caution. Since Gold Standard Diagnostics cannot control the methods, volumes, or conditions of use of this product, Gold Standard Diagnostics shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. An individual technically qualified to handle potentially hazardous chemicals must supervise the use of this material. This product is sold for research use only. It is not for any human or animal therapeutic or clinical diagnostic use.

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