

Section 1 Chemical Product and Company Information

Innovating Science[®] by Aldon Corporation
 "cutting edge science for the classroom"

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CHEMTREC 24 Hour Emergency
Phone Number (800) 424-9300
 For laboratory use only.
 Not for drug, food or household use.

Product	HUMAN ANTISERUMS
Synonyms	Anti-A, Anti-B and Anti-Rh(D), Monoclonal Antibodies

Section 2 Hazards Identification

Signal word: DANGER
Pictograms: GHS06 / GHS09
Target organs: None known



GHS Classification:
 Acute toxicity (Category 3)
 Aquatic toxicity, acute (Category 1)
 Aquatic toxicity, chronic (Category 1)

GHS Label information: Hazard statement:
 H301: Toxic if swallowed.
 H400: Very toxic to aquatic life.
 H410: Very toxic to aquatic life with long lasting effects.

Precautionary statement:
 P264: Wash hands thoroughly after handling.
 P270: Do not eat, drink or smoke when using this product.
 P273: Avoid release to the environment.
 P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor.
 P330: Rinse mouth.
 P391: Collect spillage.
 P405: Store locked up.
 P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.

Supplementary information:
 FOR EDUCATIONAL TEACHING PURPOSES ONLY!
 KEEP REFRIGERATED.
 All forms of direct contact should be avoided.

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

Section 3 Composition / Information on Ingredients

Chemical Name	CAS #	%	EINECS
These products contain materials of biological origin (including some from human-derived cell lines) and dissolved in an aqueous medium containing inorganic buffer salts, organic potentiators, and preservatives. Some components are materials of biological origin. Materials from human-derived cell lines were found to be negative in tests for Hepatitis B, HIV and EBV. However, since no test can guarantee that such materials will not transmit infection, due care should be exercised in their handling.			
Contains: Sodium azide (as preservative) Anti-A and Anti-B Reagents contain dyes.	26628-22-8	<0.1% w/w	247-852-0

Section 4 First Aid Measures

INGESTION: MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: MAY BE HARMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: MAY CAUSE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: MAY BE HARMFUL IF ABSORBED THROUGH SKIN. MAY CAUSE IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire Fighting Measures

Suitable Extinguishing Media: Use any media suitable for extinguishing supporting fire.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. These products are aqueous liquids and are unlikely to combust. However, their containers may burst when subjected to heat and explosively eject sharp fragments and hot liquid.

Section 6 Accidental Release Measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Contain spills and avoid release to the environment. Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Section 7 Handling & Storage

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, well-ventilated area away from incompatible substances. Protect from sunlight.

Section 8 Exposure Controls / Personal Protection

Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
	Sodium azide	STEL: C 0.29 mg/m ³ as NaN ₃ (A4)	None established	STEL: C 0.3 mg/m ³ as NaN ₃

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

Section 9 Physical & Chemical Properties

Appearance: Liquid. Blue (Anti-A) or Yellow (Anti-B) or Clear (Anti-D) Odor: No odor. Odor threshold: Data not available. pH: 6.8-7.4 Melting / Freezing point: Approximately 0°C (32°F) (water) Boiling point: Approximately 100°C (212°F) (water) Flash point: Data not available	Evaporation rate (Water = 1): <1 Flammability (solid/gas): Data not available. Explosion limits: Lower / Upper: Data not available Vapor pressure (mm Hg): 14 (water) Vapor density (Air = 1): 0.7 (water) Relative density (Specific gravity): Approximately 1.0 (water) Solubility(ies): Complete in water.	Partition coefficient: Data not available Auto-ignition temperature: Data not available Decomposition temperature: Data not available. Viscosity: Data not available. Molecular formula: Mixture Molecular weight: Mixture
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Section 10 Stability & Reactivity

Chemical stability: Stable
Hazardous polymerization: Will not occur.
Conditions to avoid: Excessive temperatures which cause evaporation. Protect from sunlight.
Incompatible materials: Avoid contact with lead and copper (plumbing metals), acids, and oxidizing agents.
Hazardous decomposition products: Carbon oxides, nitrogen oxides, and sodium oxides.

Section 11 Toxicological Information

Acute toxicity: [Sodium azide] Oral-rat LD50: 27 mg/kg ; Dermal-rabbit LD50: 20 mg/kg
Skin corrosion/irritation: Data not available
Serious eye damage/irritation: Data not available
Respiratory or skin sensitization: Data not available
Germ cell mutagenicity: Data not available
Carcinogenicity: Data not available
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.
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.
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: Data not available
STOT-single exposure: Data not available
STOT-repeated exposure: Data not available
Aspiration hazard: Data not available
Potential health effects:
Inhalation: May be harmful if inhaled.
Ingestion: May be harmful if swallowed.
Skin: May cause irritation. May be harmful if absorbed through skin.
Eyes: May cause irritation.
Signs and symptoms of exposure: These products have components that are irritant to eyes, skin and mucous membranes, and which are harmful by ingestion and skin contact. Although exposure by these routes is unlikely, known symptoms include nausea, vomiting, diarrhea, gastric pain, tiredness and headache and are associated with cardiovascular, nervous, respiratory and renal effects. Exercise appropriate procedures to minimize potential hazards.
Additional information: RTECS #: VY8050000 [Sodium azide]

Section 12 Ecological Information

Toxicity to fish: Rainbow trout LC50: 0.8-1.6 mg/L/96 hour @ 13°C [Sodium azide]
Toxicity to daphnia and other aquatic invertebrates: Daphnia magna (Crustacea), EC50 = 4.2 mg/L/96 hours @ 15°C [Sodium azide]
Toxicity to algae: 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: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Section 13 Disposal Considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency. Small amounts may be absorbed with an inert material such as paper or spill kit absorbant and disposed of by incineration as biohazardous waste according to local regulations. A contractor authorized according to local regulations should carry out disposal of larger amounts. Discharge of these products into drains may require written consent from the sewerage authority.

Section 14 Transport Information

UN/NA number: Not applicable
Hazard class: Not applicable
Exceptions: Not applicable
Shipping name: Not Regulated
Packing group: Not applicable
2012 ERG Guide # Not applicable
Reportable Quantity: No
Marine pollutant: No

Section 15 Regulatory Information

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

Component	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	WHMIS Classification
Sodium azide	Listed	Not listed	Not listed	Listed	Not listed	D1A

Section 16 Additional Information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.

Revision Date: February 11, 2013

Supersedes: January 6, 2012