



**SIGMA-ALDRICH**

**Material Safety Data Sheet**

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Version 1.0

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**Section 1 - Product and Company Information**

**Product Name** Anti-Rat IgG (whole molecule)-Alkaline Phosphatase, Developed in Goat, Affinity isolated antigen specific antibody.  
**Product Number** A8438  
**Brand** Sigma Chemical  
**Company** Sigma-Aldrich  
**Street Address** 3050 Spruce Street  
**City, State, Zip, Country** SAINT LOUIS, MO 63103 US  
**Technical Phone:** 314 771 5765  
**Fax:** 800 325 5052  
**Emergency Phone:** 414 273 3850 Ext. 5996

**Section 2 - Composition/Information on Ingredient**

<u>Substance Name</u>	<u>CAS #</u>	<u>SARA 313</u>	<u>EC no</u>	<u>Annex I Index Number</u>
ANTIBODY WITH LESS THAN 60% GLYCEROL AND LESS THAN 0.1% SODIUM AZIDE	None	No		

**Formula**  
**Synonyms**

**Section 3 - Hazards Identification**

**Emergency Overview**  
Sodium azide may react with lead and copper plumbing to form highly explosive metal azides. Target organ(s): Kidneys.

**HMIS Rating**  
Health: 1\* Flammability: 0 Reactivity: 1

**NFPA Rating**  
Health: 1 Flammability: 0 Reactivity: 1

\*additional chronic hazards present.

For additional information on toxicity, please refer to Section 11.

**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 breathing becomes difficult, call a physician.

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

**Eye Exposure**

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

**Section 5 - Fire Fighting Measures**

**Explosion Hazards**

Azide reacts with many heavy metals such as lead, copper, mercury, silver, gold to form explosive compounds. Copper and lead azides are more sensitive than nitroglycerine. Azide reacts with metal halides to give a range of metal azide halides, many of which are explosive. Incompatible with chromyl chloride, hydrazine, bromine, carbon disulfide, dimethyl sulfate, dibromomalonitrile.

**Autoignition Temp:** N/A

**Extinguishing Media**

**Suitable**  
Water spray, Carbon dioxide, dry chemical powder, or appropriate foam.

**Firefighting**

**Protective Equipment**  
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.  
**Specific Hazard(s)**  
Emits toxic fumes under fire conditions.

**Section 6 - Accidental Release Measures**

**Procedure(s) of Personal Precaution(s)**

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

**Methods for Cleaning Up**

Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

**Section 7 - Handling and Storage**

**Handling**

**User Exposure**  
Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

**Storage**

**Suitable**  
Keep tightly closed. Store at 2-8°C

**Section 8 - Exposure Controls / PPE**

**Engineering Controls**

Safety shower and eye bath. Mechanical exhaust required.

**Personal Protective Equipment**

**Respiratory**  
Government approved respirator.  
**Hand**  
Compatible chemical-resistant gloves.  
**Eye**  
Chemical safety goggles.  
**Skin-Specific**  
Chemical resistant apron.

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**Safety and Environmental Health**

**General Hygiene Measures**

Wash thoroughly after handling. Wash contaminated clothing before reuse.

**Exposure Limits**

Country	Type	Value
Poland <b>Remarks:</b> SODIUM AZIDE	NDS	0.1 mg/m <sup>3</sup>
Poland <b>Remarks:</b> SODIUM AZIDE	NDSch	0.3 mg/m <sup>3</sup>
Poland <b>Remarks:</b> SODIUM AZIDE	NDSP	
Poland <b>Remarks:</b> GLYCEROL	NDS	10 mg/m <sup>3</sup>
Poland <b>Remarks:</b> GLYCEROL	NDSch	
Poland <b>Remarks:</b> (OELS ARE VALID FOR AEROSOLS) GLYCEROL	NDSP	

**Section 9 - Physical/Chemical Properties****Appearance**Physical State  
Liquid

Molecular Weight: N/A

pH N/A  
 BP/BP Range N/A  
 MP/MP Range N/A  
 Freezing Point N/A  
 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 N/A  
 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

Flammability N/A  
 Autoignition Temp N/A

Solubility N/A

N/A = not available

**Section 10 - Stability and Reactivity****Stability**

Stable

Stable.

**Materials to Avoid**

Dimethyl sulfate is incompatible with sodium azide, Acid chlorides, Halogenated solvents, Avoid contact with metals., Avoid contact with acid., Sodium azide may react with lead and copper plumbing to form highly explosive metal azides..

**Hazardous Decomposition Products****Hazardous Decomposition Products**

Nature of decomposition products not known.

**Hazardous Polymerization****Hazardous Polymerization**

Will not occur.

**Section 11 - Toxicological Information****Route of Exposure****Skin Contact**

May cause skin irritation.

**Skin Absorption**

May be harmful if absorbed through the skin.

**Eye Contact**

May cause eye irritation.

**Inhalation**

May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

**Ingestion**

May be harmful if swallowed.

**Target Organ(s) or System(s)**

Kidneys.

**Signs and Symptoms of Exposure**

Many azides cause a fall in blood pressure and some inhibit enzyme action. Laboratory experiments in animals have shown sodium azide to produce a profound hypotensive effect, demyelination of myelinated nerve fibers in the central nervous system, testicular damage, blindness, attacks of rigidity, and hepatic and cerebral effects. Prolonged exposure can cause: Nausea, headache, and vomiting. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

RTECS Number: N/A

**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

**Non-Hazardous for Transport:** This substance is considered to be non-hazardous for transport.

**IATA**

**Non-Hazardous for Air Transport:** Non-hazardous for air transport.

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**Section 15 - Regulatory Information**

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**US Classification and Label Text**

**US Statements**

Sodium azide may react with lead and copper plumbing to form highly explosive metal azides. Target organ(s): Kidneys.

**United States Regulatory Information**

**SARA Listed:** No

**Canada Regulatory Information**

**WHMIS Classification**

This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

**DSL:** Yes

**NDSL:** No

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**Section 16 - Other Information**

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**Disclaimer**

For R&D use only. Not for drug, household or other uses.

**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. 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. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2005 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

