

# Athens Research and Technology, Inc.

## SDS - SAFETY DATA SHEET

Revision Date: 1 May 2023  
Version: 3

### 1. IDENTIFICATION

#### 1.1 Product Identifier

PRODUCT NAME	Myeloperoxidase, Human Neutrophil
PRODUCT Number	16-14-130000
BRAND	Athens Research and Technology

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of substance	Research Reagent Only, Not Approved for Therapeutic Use
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#### 1.3 Details of the supplier of the safety data sheet

SUPPLIER	Athens Research and Technology 110 Trans Tech Drive Athens, GA 30601 USA Email: artbio@athensresearch.com
TELEPHONE	+1 706-546-0207
FAX	+1 706-546-7395

#### 1.4 Emergency Telephone Number

EMERGENCY PHONE	+1 706-546-0207
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### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

GHS Classification	Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)
OSHA Hazards	No known OSHA Hazards

#### 2.2 Label Elements

Precautionary Statement	Human Source: Appropriate safety procedure must be followed for human source material as found in: <i>Laboratory Biosafety Guidelines (3<sup>rd</sup> Ed., 2004)</i> Handle as if capable of transmitting infectious agents.
Signal Word	Warning

#### Hazard Statements:

H303	Ingestion	May be harmful if swallowed
H313/H316	Skin	May be harmful if absorbed through the skin. May cause irritation.
H319	Eyes	May cause eye irritation
H333/H335	Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.

#### 2.3 Other Hazards - None

**3. COMPOSITION/INFORMATION ON INGREDIENTS:**

**3.1 Substance** – Myeloperoxidase from Human Neutrophil. The product contains no substances which at their present concentrations are considered to be hazardous to health.

**3.2 Mixtures**

SUBSTANCE					MIXTURE
Chemical ID	Common name/synonym	CAS-No.	EC No.	Classifications	Concentration
NaCl	Sodium Chloride/ Halite	7647-14-5	231-598-3	-	≤53%
NaCH <sub>3</sub> COO	Sodium Acetate, NaOAc, sodium ethanoate	127-09-3	204-823-8	-	≤37%
Myeloperoxidase	MPO,	9003-99-0	232-668-6	-	≥9.1%

**4. FIRST AID MEASURES****4.1 Description of First Aid Measures**

<b>Inhalation</b>	If inhaled, move person into fresh air. If not breathing, give CPR
<b>Skin Contact</b>	In case of skin contact wash off with soap and plenty of water
<b>Eye Contact</b>	In case of eye contact flush eyes with water
<b>Ingestion</b>	If swallowed never give anything by mouth to an unconscious person. Rinse mouth with water. Consult physician.

**4.2 Most Important Symptoms and effect, both acute and delayed** – No Information Available

**4.3 Indication of immediate medical attention and special treatment needed** -

Notes to Physician – Treat Symptomatically

**5. FIRE FIGHTING MEASURES****Sections 5.1 – 5.3**

<b>5.1 Extinguishing Media</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>5.2 Special Hazards Arising From Substance</b>	Not flammable or combustible
<b>5.3 Advice for Firefighters</b>	Use SCBA and full turnout gear

**6. ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

<b>Personal Precautions</b>	Safety glasses/goggles, gloves, lab coat.
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## 6.2 Environmental precautions

<b>Environmental Precautions</b>	Do not let product enter drain system
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## 6.3 Methods and material for containment and cleaning up

<b>Methods &amp; Materials for containment and clean up</b>	Pick up and arrange disposal in accordance with existing disposal practices employed for infectious waste at your location. Sweep up and shovel. Keep in suitable, closed containers for disposal.
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## 7. HANDLING AND STORAGE

### Sections 7.1 – 7.3

<b>7.1 Precautions for safe handling</b>	Avoid contact with skin and eyes. Provide appropriate exhaust ventilation at places where dust is formed.
<b>7.2 Conditions for safe storage, including incompatibilities</b>	Keep container tightly closed in a dry and well-ventilated place. Recommended Storage temperature: -20°C
<b>7.3 Specific end uses</b>	Not available

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control Parameters

<b>Exposure Limit Value</b>	Contains no substances with occupational exposure limit values
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### 8.2 Exposure Controls

<b>PPE – Personal Protective Equipment</b>	<p><b>Respiratory Protection</b> – Ensure adequate ventilation.</p> <p><b>Hand Protection</b> – Handle with gloves, inspect prior to use</p> <p><b>Eye Protection</b> – Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH or EN 166</p> <p><b>Skin &amp; Body Protection</b> – Labcoat, long pants/skirt, and close toed shoes recommended. PPE must be selected according to the concentration and amount of the dangerous substance at the specific workplace.</p>
<b>Engineering measures</b>	Ensure adequate ventilation.
<b>Hygiene Measures</b>	General industrial hygiene practice

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on Basic Physical and Chemical Properties

Physical State @ 20°C	Solid, Lyophilized
Color	Green
Odour	No data available

### 9.1 Information on Basic Physical and Chemical Properties (Continued)

pH	6.0
Melting point/Freezing Point	No data available
Boiling Point/Boiling Range	No data available
Flash Point	No data available
Flammability	No data available
Ignition temperature	No data available
Auto-ignition temperature	No data available
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapor pressure	No data available
Density	No data available
Solubility in Water	No data available
Solubility in Oil	No data available
Solubility in Acetone	No data available
Relative vapor density	No data available
Decomposition temperature	No data available
Kinematic viscosity	No data available
Partition coefficient n-octanol/water	No data available
Evaporation Rate	No data available
Odour Threshold	No data available
Particle Characteristics	Not Applicable

9.2 Other information - No data available

## 10. STABILITY AND REACTIVITY

### Sections 10.1 – 10.6

10.1 Reactivity	No data available
10.2 Chemical Stability	Stable under recommended storage conditions
10.3 Possibility of hazardous reactions	No data available
10.4 Conditions to Avoid	No data available
10.5 Incompatible materials	No data available
10.6 Hazardous decomposition products	No data available

## 11. Toxicological Information

### 11.1 Information on hazard classes

Acute Toxicity Data: Not hazardous

#### NUMERIC MEASURES OF TOXICITY

Oral LD50	No data available
Inhalation LC50	No data available
Dermal LD50	No data available
Other acute toxicity information	No data available

#### ROUTES OF EXPOSURE

Ingestion	May be harmful if swallowed
Skin corrosion/irritation	May be harmful if absorbed through the skin. May cause irritation.
Serious eye damage/irritation	May cause eye irritation
Respiratory or Skin sensitization	May be harmful if inhaled. May cause respiratory tract irritation.

#### Potential Health Effects

Related Symptoms	No data available
Acute & Chronic Effects	No data available
Reproductive toxicity	No data available
Teratogenicity	No data available
Germ cell Mutagenicity	No data available
STOT-single exposure	No data available
STOT-repeated exposure	No data available
Aspiration Hazard	No data available
Carcinogenicity	No data available

11.2 Information on other hazards: No data available

## 12. Ecological Information

12.1 Ecotoxicity - No Data Available

12.2 Persistence/Degradability - No Data Available

12.3 Bioaccumulation 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 Endocrine disrupting properties - No Data Available

12.7 Other Adverse Effects - No Data Available

### 13. Disposal Considerations

#### 13.1 Waste treatment methods

Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.
Waste from residues /unused products	Dispose of in accordance with local regulations.

### 14. Transport Information

DOT Classification	Not dangerous goods. This substance is considered to be non-hazardous for transport. Non-hazardous for air transport.
ADR	Not dangerous goods. This substance is considered to be non-hazardous for transport. Non-hazardous for air transport
IATA	Not dangerous goods. This substance is considered to be non-hazardous for transport. Non-hazardous for air transport

### 15. Regulatory Information

#### 15.1 Safety, Health, and Environment Regulations

OSHA Hazards	No known OSHA hazards
SARA 311/312 Hazards	No SARA hazards. Reportable qty: lowest RQ>999999 lbs
SARA 302 Components Subject to reporting levels established by SARA Title III, Section 302:	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 Components Subject to reporting levels established by SARA Title III, Section 313:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels.

Massachusetts Right To Know Components	No components are subject to the Massachusetts Right to Know Act
Pennsylvania Right To Know Components	Myeloperoxidase - CAS-No. 9003-99-0 Sodium Acetate -CAS-No. 127-09-3 Sodium Chloride -CAS-No. 7647-14-5
New Jersey Right To Know Components	Myeloperoxidase - CAS-No. 9003-99-0 Sodium Acetate -CAS-No. 127-09-3 Sodium Chloride -CAS-No. 7647-14-5
California Prop. 65 Components	This product does not contain any chemicals known to State of California to cause cancer, birth defects or any other reproductive harm.

#### 15.2 Chemical Safety Assessment: No Data Available

## 16. Other Information

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The above information is believed to be correct but does not purport to be all inclusive. It shall be used only as a guide for experienced personnel. 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.

This material is a laboratory reagent for research use only. It is not to be administered to humans or used for any drug purpose.

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