



# Safety Data Sheet

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<b>1. IDENTIFICATION</b>	
Product: Lysozyme, PN 602198.901	MSDS #: 901517.001
Product Use: For laboratory use only.	Date: Rev A, July7, 2015

**2. HAZARDS IDENTIFICATION:**  
 Not classified as hazardous per GHS and OSHA. Not dangerous according to the criteria set by the European Union (EU); not listed in Table 3.1 Annex VI of regulation 1272/2008/EU, as amended. The product is not hazardous in the form in which it is placed on the market and under the normal and recommended conditions of storage and use.

The small quantities supplied in our products are unlikely to cause severe or immediate health effects. Use only as directed and in accordance with safe laboratory practices.

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

CHEMICAL INGREDIENT NAME	CAS NUMBER	EC NUMBER	% by Weight	EXPOSURE LIMITS		
				OSHA	ACGIH	EU IOELV
Lysozyme (chicken egg white)	12650-88-3	235-747-3	0.1	NA	NA	NA
Glycine	56-40-6	200-272-2	< 1	NA	NA	NA

Notes: Product is provided in three 8 ml bottles of lysozyme in a glycine (a common amino acid) buffer (> 99% water). Product is for use only with the TAI nano DSC to provide a known signal and melting temperature.

**4. FIRST AID MEASURES:**

Inhalation: Remove to fresh air.  
 Skin Contact: Flush with water.  
 Eye Contact: Immediately flush with water for a minimum of 15 minutes.  
 Ingestion: Get medical attention.

After following first aid measures, seek medical attention.

**5. FIRE-FIGHTING MEASURES:**

Flammable Properties: Not flammable.  
 Extinguishing Media: Dry chemical, carbon dioxide or appropriate foam.  
 Unique Aspects Contributing To a Fire: None.  
 Special Fire Fighting Procedures: None.  
 Note: As in any fire, wear self-contained breathing apparatus, and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES:** Due to small quantities involved, spills or leaks should not pose a significant problem. Absorb liquid with spill pillow or other absorbent. Place wastes into closed containers for proper disposal.

**7. HANDLING AND STORAGE:** Handle as directed and in accordance with safe laboratory practices.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION:**

Handle in accordance with safe laboratory practices.

Respiratory Protection: Not normally needed.  
 Eye Protection: Safety glasses with side protection.  
 Skin Protection: No special precautions. Disposable nitrile are acceptable for light intermittent exposure.  
 Engineering Controls: No special precautions.

**9. PHYSICAL AND CHEMICAL PROPERTIES:**

Appearance: Clear liquid

Physical State: Liquid	Flash Point: >350°F (>177°C)	Vapor Pressure: NA
Odor: None	Explosion Limits: NA	Vapor Density (air=1): NA
pH: NA	Boiling Point: NA	Solubility in Water: Soluble
Specific Gravity:	Melting Point: NA	Other: NA

**10. STABILITY AND REACTIVITY:**Hazardous Polymerization  Will Not Occur  May Occur

Stability: Stable

**Hazardous Decomposition/Combustion Products:**

Oxides of carbon.

**Conditions & Materials to Avoid:**

Strong oxidizing agents.

**11. TOXICOLOGICAL INFORMATION:**

Primary Route(s) of Exposure under Normal Use: None.

Target Organ(s): None.

Acute Effects: May cause allergic reaction. May be slightly irritating to eyes or skin. Glycine: Oral, rat LD50: 7,930 mg/kg.  
Lysozyme: Intraperitoneal, mouse LD50: 5800 mg/kg.

Chronic Effects: None.

Other Information: Chemical Component(s) not classified as carcinogen(s) by OSHA, IARC (Group 1/2), NTP (Group 1/2), or ACGIH (Group A1/A2). This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**12. ECOLOGICAL INFORMATION:** This material is not expected to be harmful to the environment.**13. DISPOSAL CONSIDERATIONS:** Consult state, local or national regulations for proper disposal. The U.S. Environmental Protection Agency (EPA) does not classify unused product as hazardous waste.**14. TRANSPORT INFORMATION:** Not Dangerous Goods. Not Regulated.

IATA/ICAO: Shipping Name: NA	IMDG: NA
Hazard Class: NA	
UN/NA #: NA	ADR: NA
Packing Group #: NA	

**15. REGULATORY INFORMATION:****U.S. TOSCA:** Glycine listed. Lysozyme is for research and development use only.**Canada:** This product has been classified according to the hazard criteria of the Controlled Product Registration (CPR) and this SDS contains all the information required by the CPR.**16. OTHER INFORMATION:**

U.S. EPA Constituents listed.		National Fire Protection Association Rating	
SARA 313 Chemicals	CERCLA RQ	4=Severe Hazard	HEALTH 0
None	None	3=Serious Hazard	FLAMMABILITY 0
		2=Moderate Hazard	REACTIVITY 0
		1=Slight Hazard	OTHER 0
		0=Minimal Hazard	

**Notes, abbreviations and acronyms:**

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

CAS: Chemical Abstracts Service (division of the American Chemical Society)

EC: European Commission

EU IOELV: European Union Indicative Occupational Exposure Limit Values

GHS: Globally Harmonized System of Classification and Labeling of Chemicals

IATA: International Air Transport Association

IMDG: International Maritime Code for Dangerous Goods

NA: Not Available.

OSHA: Occupational Safety and Health Administration

For laboratory use only. Not for drug, household or other uses.

The information contained herein has been compiled from data presented in various technical sources believed to be accurate. Waters makes no warranties and assumes no liability in connection with the use of this information. It is the user's responsibility to determine the suitability of this information and to assure the adoption of necessary precautions.

901517.001: July 7, 2015