

VIN-LYSO®

Safety Data Sheet

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identification

Product name Vin-Lyso® (Lysozyme, E1105)
 Synonyms Standardised dried enzyme preparation extracted from chickens egg white.
 Chemical formula Not applicable
Relevant identified uses and uses advised against
 Recommended use Enzyme preparation for use as a preservative in food processing.
Details of the supplier of the safety data sheet
 Supplier ATPGroup, Inc.
 1230 Shiloh Rd.
 Windsor, CA 95492
 Ph. 707-836-6840 Fax 707-836-6843
 Email address of the person responsible for this SDS compliance@atpgroup.com
Emergency phone number
 Emergency phone number Ph. 800-424-9300 - CHEMTREC (24/7) - within USA Canada or call ATPGroup, Inc.

2. HAZARD IDENTIFICATION

Classification of the substance or mixture

Product definition Substance

Classification:

According to **Regulation (EC) No. 1272/2008 [CLP/GHS]** : Respiratory sensitizer category 1, H334
 The product is classified as hazardous. See section 16 for the full text of the H-statements declared above.
 According to the **EU DIR 1999/45 [DPD]** and its amendments, the product is classified as dangerous; R-42.
 See section 16 for the full text of the R-phrases.

Label elements

Hazard pictograms



Signal word Danger
 Hazard statements H334-May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 Precautionary statements
 Prevention P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
 P285 - In case of inadequate ventilation wear respiratory protection.
 Response P304 + P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P342 + 311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
 Storage Not applicable.
 Disposal P501 - Dispose of contents/container according to the local regulations.
 Hazardous ingredients Lysozyme protein
Other hazards
 Other hazards that do not result in classification The mixture does not contain and is not considered as a PBT or vPvB substance.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture Substance

Ingredient name	CAS nr.	%	EINECS nr.	IUB nr.	Classification acc. REG 1272/2008	Classification acc. EU DIR 1999/45
Lysozyme	12650-88-3	> 99	232-620-4	3.2.1.17	H334	R42

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentration applicable, are classified as hazardous to health or the environment, are PBT's or vPvB's or have been assigned a workplace exposure limit and hence require reporting in this section.
 Occupational exposure limits, if available, are listed in Section 8.

4. FIRST AID MEASURES

Description of first aid measures:

Eye contact Immediately rinse with water for at least 10 minutes and occasionally lift eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. Remove from exposure into fresh air immediately and rest in a position comfortable for breathing. If irritation or allergic response occurs, consult a doctor.
 Inhalation

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7.	HANDLING AND STORAGE										
<p>Precautions for safe handling</p> <p>Protective measures</p> <p>Advice on general occupational hygiene</p> <p>Conditions for safe storage, including any incompatibilities</p> <p>Packaging materials, suitable</p> <p>Specific end uses</p> <p>Recommendations</p> <p>Industrial sector specific solutions</p>	<p>Handle according GMP in a food context. Avoid formation of aerosols and dust from dried preparation. Provide for good ventilation of the room when handling the product. If possible use in a closed circuit. Wear appropriate protective and working gear.</p> <p>Eating, drinking and smoking should be prohibited in an area where this product is handled. Further: apply GMP house rules appropriate for any food processing context. Store in the original container; keep in a dry, clean, well ventilated and cool place. Store away from incompatible materials indicated in section 10. Properly reclose after opening and prevent leakage.</p> <p>PE, Polyethylene, high density (PEHD)</p> <p>See separate, product and application specific data sheets and supplier info.</p> <p>Not available</p>										
8.	EXPOSURE CONTROLS/PERSONAL PROTECTION										
<p>Control parameters</p> <p>Occupational exposure limits</p> <p>Recommended procedures including technical and hygienic measures</p> <p>DNELs/DMELs</p> <p>PNECs</p> <p>Exposure controls</p> <p>Appropriate engineering controls</p> <p>Individual protective measures</p> <p>Respiratory protection</p> <p>Skin and body</p> <p>Hand protection</p> <p>Eye protection</p> <p>Exposure controls for environmental protection</p>	<p>No exposure limit known.</p> <p>Product is to be used in well ventilated areas whilst eating, drinking, smoking are to be prohibited. Wash hands after handling the product and before eating or smoking and after using the lavatory and at the end of the day.</p> <p>No DNELs/DMELs available</p> <p>No PNECs available</p> <p>Avoid formation of aerosols and dust from dried preparation. Provide for good ventilation of the room when handling the product. If dust, gas, vapour or mist is generated, use containment measures and local exhaust ventilation or other controls to keep workers exposure of airborne contaminants limited to an absolute minimum.</p> <p>Respirator approved for this type of aerosols and dust (mask P3)</p> <p>Wear appropriate protective clothing</p> <p>Impermeable gloves, rubber or latex.</p> <p>Protecting glasses or eye shield</p> <p>Notify the local authorities in case significant leaks occur that cannot be contained.</p> <p>Waste water is to be evacuated normally to purification plants.</p>										
9.	PHYSICAL AND CHEMICAL PROPERTIES										
<p>Information concerning the essential physical and chemical properties</p> <p>Appearance and state</p> <p>Odour</p> <p>Solubility</p> <p>Melting/freezing point, olfactory threshold, initial boiling point and boiling interval, flashpoint, evaporation rate, flammability(solid, gas), steam pressure, steam density, partition coefficient (n- octanol/water), temperature of breakdown, temperature of auto-flammability, viscosity, explosive properties, oxidising properties: data are as for any protein and are not relevant in this context.</p> <p>Other information</p>	<p>Whitish to slightly brown granulated powder.</p> <p>Odour slightly showing egg origin.</p> <p>The product is readily soluble and/or miscible in water.</p> <p>No information available</p>										
10.	STABILITY AND REACTIVITY										
<p>Reactivity</p> <p>Chemical stability</p> <p>Possibility of hazardous reactions</p> <p>Conditions to avoid</p> <p>Incompatible materials</p> <p>Hazardous decomposition products</p>	<p>Not relevant.</p> <p>The preparation is stable under normal conditions of storage.</p> <p>Under the normal conditions of storage and use, hazardous reaction will not occur.</p> <p>No specific data.</p> <p>No specific data.</p> <p>No specific data.</p>										
11.	TOXICOLOGICAL INFORMATION										
<p>Acute toxicity</p> <table border="1"> <thead> <tr> <th>Product/ingredient name</th> <th>Species</th> <th>Dose</th> <th>Result</th> <th>Exposure</th> </tr> </thead> <tbody> <tr> <td>Vin-Lyso® / Lysozyme</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> </tbody> </table> <p>Conclusion/Summary</p>	Product/ingredient name	Species	Dose	Result	Exposure	Vin-Lyso® / Lysozyme	-	-	-	-	<p>Not available.</p>
Product/ingredient name	Species	Dose	Result	Exposure							
Vin-Lyso® / Lysozyme	-	-	-	-							



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11.	TOXICOLOGICAL INFORMATION (continued)																	
<p>Continuation of page 3</p> <p>Potential acute health effects</p> <p>Eye contact Inhalation Skin contact Ingestion</p> <p>Acute toxicity Irritation/Corrosion Sensitisation</p> <p>Potential chronic health effects</p> <p>Chronic effects</p> <p>Carcinogenicity Mutagenicity Teratogenicity Reproductive toxicity Specific target organ toxicity</p> <p>Symptoms related to the physical, chemical and toxicological characteristics</p> <p>Eye contact Inhalation Skin contact Ingestion</p> <p>General</p> <p>Carcinogenicity Mutagenicity Teratogenicity Developmental effects Fertility effects</p>		<p>No known significant effects or critical hazards.</p> <p>May cause allergy or asthma symptoms or breathing difficulties if inhaled.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No information available.</p> <p>No known significant data.</p> <p>No specific data available.</p> <p>Once sensitised, a strong allergic reaction may occur when subsequently exposed to very low levels.</p> <p>Conclusion/Summary: not available.</p> <p>Conclusion/Summary: not available.</p> <p>Conclusion/Summary: not available.</p> <p>Conclusion/Summary: not available.</p> <p>Conclusion/Summary: not available.</p> <p>No specific data.</p> <p>Adverse symptoms may include: wheezing and breathing difficulties, asthma.</p> <p>No specific data.</p> <p>No specific data.</p> <p>Once sensitised, a severe allergic reaction may occur when subsequently exposed to very low levels.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p>																
12.	ECOLOGICAL INFORMATION																	
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Product/ingredient name	Species	Exposure	Result															
Vin-Lyso® / Lysozyme	-	-	-															
Product/ingredient name	Aquatic half life	Photolysis	Biodegradability															
Vin-Lyso® / Lysozyme	-	-	Readily															
13.	DISPOSAL CONSIDERATIONS																	
<p>Waste treatment methods</p> <p>Hazardous waste</p> <p>Packaging material</p> <p>Special precautions</p>		<p>Dispose of surplus or non-recyclable residual product by flushing with water into an approved sewer or otherwise in line with local legal requirements.</p> <p>Empty containers or IBC's may be rinsed and find alternative uses.</p> <p>The classification of the product and/or the packaging material may meet the criteria for hazardous waste.</p> <p>P501 - Dispose of contents/container according to the local regulations.</p> <p>This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.</p>																



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14.	TRANSPORT INFORMATION					
International transport regulations:						
	UN number	UN proper shipping name	Transport hazard class	Packing group	Environmental hazards	Additional information
ADR/RID	Not regulated	-	-	-	No	-
ADN	Not regulated	-	-	-	No	-
IMDG	Not regulated	-	-	-	No	-
IATA	Not regulated	-	-	-	No	-
Special instructions for the user		Transport at the users' premises: ensure transport in closed and upright drums or cartons by qualified and trained personnel aware of what to do in the event of spillage.				
Transport in bulk according Annex II of MARPOL 73/78 and the IBC code		Not available.				
15.	REGULATORY INFORMATION					
Safety, health and environmental regulations/legislation specific for the substance or mixture:						
EU Regulation 1907/2006 (REACH)						
Annex XIV – List of substances subject to authorisation		None of the components are listed.				
Substances of very high concern		None of the components are listed.				
Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles		Not applicable.				
Chemical safety assessment		No chemical safety assessment was needed and/or has been carried out.				
16.	OTHER INFORMATION					
Procedure used to derive the classification according to EU Regulation 1272/2008 [CLP/GLS]						
Product/ingredient name		Classification		Justification		
Vin-Lyso® / Lysozyme		Resp. Sens. 1, H334		Calculation method		
Full text of abbreviated H statements		H334: May cause allergy of asthma symptoms or breathing difficulties if inhaled.				
Full text of classifications [CLP/GLS]		Resp. Sens. 1, H334 RESPIRATORY SENSITIZATION – Category 1.				
Full text of abbreviated R phrases		R42 – May cause sensitisation by inhalation.				
Full text of classifications		Not applicable.				
Alterations compared to previous version		Alterations to the previous version are marked with an *.				
Material for study and training		Enzyme products need handled with care by skilled personnel only. Please consult the 'AMFEP Guide to the Safe handling of Enzymes' (www.amfep.org) for further information. As member of AMFEP, the mfg. plant has adopted a strict safety policy and recommends enzyme processing organisations to take note of the information presented by AMFEP, of which this MSDS only is a formal summary.				
Notice to the reader						
The information contained in this Material Safety Data Sheet, as of the issue date, is believed to be true and correct. However, the accuracy or completeness of this information and any recommendations or suggestions are made without warranty or guarantee. Since the conditions of use are beyond the control of our company, it is the responsibility of the user to determine the conditions of safe and appropriate use of this preparation. The information in this sheet does not represent analytical specifications, for which please refer to our technical data sheets. The format of this MSDS references the EC Regulation 1907/2006 as amended and ISO standard ISO 11014-1:1994 (E) and is recommended by the Association of Manufacturers and Formulators of Enzyme Products (AMFEP).						
History						
Date first issue	: 01/06//2015					
Last review date	: See header.					
Version	: SDS-CLP/GHS-001/15					