SAFETY DATA SHEET



MolSieve 5A Packed GC columns

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

This product is considered an article. This Safety Data Sheet is written based on the encapsulated substance or mixture in this article.

1.1 Product identifier		
Product name	: MolSieve 5A Packed GC columns	
EC number	: Not available.	
CAS number	: 1318-02-1	
Part no.	: G3591-70002, G3591-70003, G3591-70013, G3591-78001, G3591-80017, G3591-81017, G3591-82017, G3591-80022, G3591-81022, G3591-82022, G3591-80046, G3591-81046, G3591-80056, G3591-81056, G3591-80061, G3591-81061, G3591-80062, G3591-81062, G3591-80064, G3591-81064, G3591-82064, G3591-80065, 3591-81065, G3591-80074, G3591-81074, G3591-800 G3591-81075, G3591-80077, G3591-80090, G3591-80103, G3591-80104, G3591-81104, G3591-80173, G3591-81209, CP1306, CP2045, CP2046, CP2065, CP81025, 391242435, G3591-81223	75,

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

Material uses

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		:	Ana	lytical	cher	nist	ry.		

 Analytical chemistry	<i>I</i> .
GC Column	
G3591-70002	2m 1/8 2mm Molecular sieve 5A 60/80
G3591-70003	2m 1/8 2mm Molecular sieve 5A 80/100
G3591-70013	2m 1/8 2mm Molecular sieve 5A 45/60
G3591-78001	9Ft 1/8 2mm Molsieve 5A PDHID Column UM
G3591-80017	6Ft 1/8 2mm Molecular sieve 5A 60/80 SS
G3591-81017	6Ft 1/8 2mm Molecular sieve 5A 60/80 UM
G3591-82017	6Ft 1/8 2mm Molecular sieve 5A 60/80 Ni
G3591-80022	8Ft 1/8 2mm Molecular sieve 5A 60/80 SS
G3591-81022	8Ft 1/8 2mm Molecular sieve 5A 60/80 UM
G3591-82022	8Ft 1/8 2mm Molecular sieve 5A 60/80 Ni
G3591-80046	9Ft 1/8 2mm Molecular sieve 5A 60/80 SS
G3591-81046	9Ft 1/8 2mm Molecular sieve 5A 60/80 UM
G3591-80056	20Ft 1/8 2mm Molecular sieve 5A 60/80 SS
G3591-81056	20Ft 1/8 2mm Molecular sieve 5A 60/80 UM
G3591-80061	15Ft 1/8 2mm Molecular sieve 5A 45/60 SS
G3591-81061	15Ft 1/8 2mm Molecular sieve 5A 45/60 UM
G3591-80062	7Ft 1/8 2mm Molecular sieve 5A 45/60 SS
G3591-81062	7Ft 1/8 2mm Molecular sieve 5A 45/60 UM
G3591-80064	9Ft 1/8 2mm Molecular sieve 5A 80/100 SS
G3591-81064	9Ft 1/8 2mm Molecular sieve 5A 80/100 UM
G3591-82064	9Ft 1/8 2mm Molecular sieve 5A 80/100 Ni
G3591-80065	25Ft 1/8 2mm Molecular sieve 5A 60/80 SS
G3591-81065	25Ft 1/8 2mm Molecular sieve 5A 60/80 UM
G3591-80074	3Ft 1/8 2mm Molecular sieve 5A 80/100 SS
G3591-81074	3Ft 1/8 2mm Molecular sieve 5A 80/100 UM
G3591-80075	3Ft 1/8 2mm Molecular sieve 5A 100/120 SS
G3591-81075	3Ft 1/8 2mm Molecular sieve 5A 100/120 UM
G3591-80077	1Ft 1/8 2mm MS5A 60/80 straight column SS
G3591-80090	4Ft 1/8 2mm Molecular sieve 5A 45/60 SS
G3591-80103	3Ft 1/8 2mm Molecular sieve 5A 60/80 SS
G3591-80104	4Ft 1/8 2mm Molecular sieve 5A 60/80 SS
G3591-81104	4Ft 1/8 2mm Molecular sieve 5A 60/80 UM
G3591-80173	0.6M 1/4 4mm Molsieve5A 80/100 SS tested
G3591-81209	7Ft 1/8 2.1mm MolSieve 5A 60/80 UM 41mm
CP1306	1.5M 1/16 1mm Molecular sieve 5A 80/100 UM tested
CP2045	10Ft 1/8 2mm Molecular sieve 5A 80/100 UM
CP2046	5Ft 1/8 2mm Molecular sieve 5A 80/100 UM

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CP2065	6Ft 1/8 2mm Molecular sieve 5A 45/60 UM
CP81025	1M 1/8 2mm Molecular sieve 5A 60/80 UM pretested
391242435	Molsieve 5A, 45/60 MESH 6 ft x 1/8 in
G3591-81223	9Ft 1/8 2.1mm Molsieve 5A 45/60 UM 41mm

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Manufacturing GmbH & Co. KG Hewlett-Packard-Str. 8 76337 Waldbronn Germany 0800 603 1000 e-mail address of person : pdl-msds_author@agilent.com responsible for this SDS

1.4 Emergency telephone number

Emergency telephone number (with hours of operation) : CHEMTREC®: +(44)-870-8200418

SECTION 2: Hazards identification

This article, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. The substance or mixture is encapsulated in the article. Only if released due to use or processing of the article in a manner not in accordance with the product's directions for use it may present potential health and safety hazards.

2.1 Classification of the substance or mixture

 Product definition
 : Mono-constituent substance (encapsulated in article)

 Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

 Not classified.

See Section 16 for the full text of the H statements declared above. See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Signal word Hazard statements <u>Precautionary statements</u>	No signal word.No known significant effects or critical hazards.
Prevention	: Not applicable.
Response	: Not applicable.
Storage	: Not applicable.
Disposal	: Not applicable.
Supplemental label elements	: Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles <u>Special packaging require</u>	

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SECTION 2: Hazards identification

Tactile warning of danger : Not applicable.

2.3 Other hazards

not result in classification

Product meets the	PBT	Р	В	Т	vPvB	vP	vB	
criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	Not applicable (Inorganic)	N/A	N/A	N/A	Not applicable (Inorganic)	N/A	N/A	
Other hazards which do	None known.				•			

SECTION 3: Composition/information on ingredients

This article, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. The substance or mixture is encapsulated in the article. Only if released due to use or processing of the article in a manner not in accordance with the product's directions for use it may present potential health and safety hazards.

3.1 Substances : Mono-constituent substance (encapsulated in article)

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
Zeolites	CAS: 1318-02-1	100	Not classified.	[A]

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

<u>Type</u>

[A] Constituent

[B] Impurity

[C] Stabilising additive

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	-	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	:	Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	1	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Protection of first-aiders	1	No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact	: No known significant effects or critical hazards.			
Inhalation	: No known significant effects or critical hazards.			
Skin contact	: No known significant effects or critical hazards.			
Ingestion	: No known significant effects or critical hazards.			
Over-exposure signs/symptoms				

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SECTION 4: First aid measures

Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
5.2 Special hazards arising	from the substance or mixture
Hazards from the substance or mixture	: No specific fire or explosion hazard.
Hazardous combustion products	: Decomposition products may include the following materials: metal oxide/oxides
5.3 Advice for firefighters	
Special precautions for fire-fighters	 Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire- fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

incidents.

For non-emergency personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
For emergency responders	: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	 Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

European standard EN 469 will provide a basic level of protection for chemical

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.

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SECTION 6: Accidental release measures

6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment.
	See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe ha	ndling		
Protective measures	: Put on appropriate personal protective equipment (see Section 8).		
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.		
7.2 Conditions for safe stor	rage, including any incompatibilities		
Storage	: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.		
7.3 Specific end use(s)			
Recommendations	: Industrial applications, Professional applications.		
Industrial sector specific solutions	: Not available.		

SECTION 8: Exposure controls/personal protection

Since the hazardous ingredient in this article is encapsulated, the risk of exposure by inhalation, ingestion, skin contact and eyes contact is minimum.

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

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SECTION 8: Exposure controls/personal protection

Individual protection measures				
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safe showers are close to the workstation location.			
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.			
Skin protection				
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.			
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.			
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.			
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.			
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.			

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

<u>Appearance</u>		
Physical state	1	Solid.
Colour	1	White.
Odour	1	Odourless.
Odour threshold	1	Not available.
Melting point/freezing point	1	>400°C [OECD 102]
Initial boiling point and boiling range	:	Not available.
Flammability (solid, gas)	1	Not available.
Upper/lower flammability or explosive limits	1	Not applicable.
Flash point	:	Not applicable.
Auto-ignition temperature	:	Not applicable.
Decomposition temperature	:	Not available.
рН	1	Not available.
Viscosity	1	Not applicable.
Solubility(ies)	1	Insoluble in the following materials: cold water and hot water.
Solubility in water	1	
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SECTION 9: Physical and chemical properties

	0.0014 g/l
Partition coefficient: n- octanol/water	Not available.
Vapour pressure	: Not available.
Evaporation rate	: Not available.
Relative density	: 2.2 [OECD 109]
Density	: 2.1 g/cm ³ [20°C (68°F)]
Vapour density	: Not applicable.
Oxidising properties	: Not available.
Particle characteristics	
Median particle size	: Not available.

No additional information.

SECTION 10: Stability and reactivity			
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.		
10.2 Chemical stability	: The product is stable.		
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.		
10.4 Conditions to avoid	: No specific data.		
10.5 Incompatible materials	: May react or be incompatible with oxidising materials.		
	Reactive or incompatible with the following materials: acids.		
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.		

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Zeolites	LC50 Inhalation Dusts and mists	Rat - Male, Female Rat - Male, Female	>18.3 mg/l >5110 mg/kg	4 hours -

Acute toxicity estimates

Reproductive toxicity			
Conclusion/Summary	: Not available.		
Carcinogenicity			
Conclusion/Summary	: Not available.		
Mutagenicity			
Conclusion/Summary	: Not available.		
<u>Sensitiser</u>			
Conclusion/Summary	: Not available.		
Irritation/Corrosion			

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SECTION 11: Toxic	SECTION 11: Toxicological information				
Conclusion/Summary	: Not available.				
Teratogenicity					
Conclusion/Summary	: Not available.				
Specific target organ tox	<u>(icity (single exposure)</u>				
Not available.					
Specific target organ tox	<u>kicity (repeated exposure)</u>				
Not available.					
Aspiration hazard					
Not available.					
Information on likely	: Not available.				
routes of exposure	facto				
Potential acute health ef Inhalation	: No known significant effects or critical hazards.				
Ingestion	: No known significant effects or critical hazards.				
Skin contact	: No known significant effects or critical hazards.				
Eye contact	: No known significant effects or critical hazards.				
	physical, chemical and toxicological characteristics				
Inhalation	: No specific data.				
Ingestion	: No specific data.				
Skin contact	: No specific data.				
Eye contact	: No specific data.				
	effects as well as chronic effects from short and long-term exposure				
Short term exposure					
Potential immediate effects	: Not available.				
Potential delayed effects	: Not available.				
Long term exposure					
Potential immediate effects	: Not available.				
Potential delayed effects	: Not available.				
Potential chronic health	effects				
General	No known significant effects or critical hazards.				
Carcinogenicity	: No known significant effects or critical hazards.				
Mutagenicity	No known significant effects or critical hazards.				
Reproductive toxicity	: No known significant effects or critical hazards.				
	-				
SECTION 12: Ecol					

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Zeolites	Chronic NOEC 200000 µg/l Fresh water	Daphnia - Daphnia magna	21 days

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

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SECTION 12: Ecological information

Product/ingredient name	LogPow	BCF	Potential
Zeolites	-	0.59 to 0.95	low

12.4 Mobility in soil

Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB
Zeolites	Not applicable (Inorganic)	N/A	N/A	N/A	Not applicable (Inorganic)	N/A	N/A

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment met	hods
Product	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.
Packaging	
Methods of disposal	 The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

This Safety Data Sheet is written based on the encapsulated substance or mixture in this article. Since the hazardous ingredient is encapsulated, the risk of exposure by inhalation, ingestion, skin contact and eyes contact is minimum.

	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
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SECTION 14: Transport information				
14.5 Environmental	No.	No.	No.	

Additional information

14.6 Special precautions
for user: Transport within user's premises: always transport in closed containers that are
upright and secure. Ensure that persons transporting the product know what to do in the
event of an accident or spillage.

14.7 Transport in bulk	: Not available.
according to IMO	
instruments	

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH) Annex XIV - List of substances subject to authorisation Annex XIV 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 Label : Not applicable. **Other EU regulations** Ozone depleting substances (1005/2009/EU) Not listed. Prior Informed Consent (PIC) (649/2012/EU) Not listed. Persistent Organic Pollutants Not listed. **Seveso Directive** This product is not controlled under the Seveso Directive. International regulations **Chemical Weapon Convention List Schedules I, II & III Chemicals** Not listed. **Montreal Protocol** Not listed. Stockholm Convention on Persistent Organic Pollutants Not listed. **Rotterdam Convention on Prior Informed Consent (PIC)** Not listed. **UNECE Aarhus Protocol on POPs and Heavy Metals** Not listed. **Inventory list Australia** : This material is listed or exempted. Canada : This material is listed or exempted.

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SECTION 15: Regulatory information

-	-
China	: This material is listed or exempted.
Europe	: This material is listed or exempted.
Japan	 Japan inventory (CSCL): This material is listed or exempted. Japan inventory (ISHL): This material is listed or exempted.
New Zealand	: This material is listed or exempted.
Philippines	: Not determined.
Republic of Korea	: This material is listed or exempted.
Taiwan	: This material is listed or exempted.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: This material is active or exempted.
Viet Nam	: Not determined.
15.2 Chemical safety assessment	: This product contains substances for which Chemical Safety Assessments might still be required.

SECTION 16: Other information

✓ Indicates information that has changed from previously issued version.

Abbreviations and acronyms	: ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.
	1272/2008] DMEL – Denived Minimal Effect Level
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EUH statement = CLP-specific Hazard statement
	N/A = Not available
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Not classified.	

Full text of abbreviated H statements

Not applicable.

Full text of classifications [CLP/GHS]

Not applicable.

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Notice to reader	

Notice to reader

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