ACID CELLULASE MATERIAL SAFETY DATA SHEET					
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SECTION 1 Chemicals and corporate identify					
Chinese name	纤维素酶	Chin	ese alias	酵素水	
English name	Acid Cellulase	Eng	lish alias	Enzymes liquid	
CAS NO.	9012-54-8	MS	SDS NO.	MSDS#201503	
Supplier name	Zibo Green Trade Co.,Ltd	Supplier	r address	Zhoucun textile science and technology five west 18, Zibo city, China.	
Supplier tel.	86533-2722853	Sup	plier fax	86533-2722853	
SECTION 2 Risk overview					
Risk category	No transport hazardous				
Invasion pathways	Eyes and skin contact, inhalation				
Health hazards	No detailed toxicological studies. Avoid direct contact, prevent inhalation.				
Explosion hazard	Explosion hazard Do not belong to flammable substances.				
SECTION 3 Ingredient/component information					
Ingredient Concentrati		on		CAS NO.	

Acidic Cellulase protei	1 20-40%	/			
Sorbit	ol 20%	50-70-4			
Sodium chloric	le 40%	7647-14-5			
SECTION 4 First aid measures					
Skin contact	Rinse skin absolutely with soap water and clean water. If irritation, see medical advice.				
Eye contact	Did eyelid, rinse more than 15 minutes with flowing clean water. If irritation, see medical advice.				
Inhalation	Leave scene immediately to fresh air place. If breath difficultly, oxygen; if stop breath, artificial respiration.				
Ingestion	Gargle with warm water, see medical advice.				
SECTION 5 Fire-fighting measures					
Hazardous characteristics	No explosion hazard,not belong to flammable hazardous article,No oxidant hazard,not belong to corrosive,not belong to toxic chemicals.				
Hazardous Combustion Products	Carbon monoxide、carbon dioxide、nitrogen oxides,etc.				
Fire extinguishing method and fire extinguishing agent	Available spray water, dry powder, sand, foam and carbon dioxide fire extinguishing.				
Fire extinguishing measures and precautions	Firefighters should wear positive pressure self-contained breathing apparatus, wearing fire protective clothing to prevent skin and eye contact.				
SECTION 6 Leakage emergency measures					
Emergency Treatment	Adsorption with inert material (such as dry sand, vermiculite) were collected in a dry, clean, covered containers for disposal. After cleaning ventilation, watering, personnel should wear suitable protective clothing.				
SECTION 7 Handling and storage					
Handling notice	Operator should be trained, strictly follow operation procedure. Recommend operator draw general working protective suit, wear safety gloves, avoid direct contact with eyes and skin. Prevent inhalation. Far away from fire, heat, and prohibit smoking in workplace. There is should be ventilation system and equipment. Avoid contact with oxidizing agent, flammable substances. Light loading and unloading when transport, prevent packaging weaken, moisture, and cause loss. Equip relevant types and quantities fire				

Storage notice	equipments and leakage emergency equipments. Stored in a cool and dry storehouse. Far away from fire, heat. Keep container be sealed. Should be separately placed with oxidizing agent and flammable			
	substances. Equip relevant types and quantities fire equipments, leakage emergency equipments and proper store materials in storehouse.			
SECTION 8 Contact control/personal protection				
Maximum allowable concentration	No formulate standard			
Monitoring methods	None			
Engineering control	Have ventilation system and equipment. Provide safe shower and eyes washing equipments.			
Breath system protection	If necessary, wear masks approved by administration department.			
Eyes protection	Wear safety glasses.			
Body protection	Wear general working protective cloths.			
Hands protection	Wear safety gloves.			
Other protection	Prohibit smoking, eating in workplace. Shower and dressing after working.			
SECTION 9 Physical and chemical property				
Appearance and characteristic	Brown liquid, fermentation odor.			
PH value	4-6			
Solubility	Miscible in water, emulsified in acetone and ethanol.			
SECTION 10 Stability and reactivity				
Stability	Be stable under normal temperature and ordinary pressure.			
Conditions and				
substance avoid to	Strong oxidizers			
contact				
Harm of polymerization	No polymerize			
Decomposition products	Carbon monoxide, carbon dioxide, nitrogen oxides, etc.			
SECTION 11 Toxicological information				
Acute toxicity	None			

Irritation	Slightly irritate to eyes and skin.			
SECTION 12 Ecology information				
Ecotoxicity	None			
Biodegradation	None			
Non-biodegradation	None			
SECTION 13 Disposal				
Litter nature	No belong to dangerous litter.			
Disposal consideration	Refer to the relevant provisions of local environmental protection department before disposal. Suggested to qualified chemical waste treatment department.			
SECTION 14 Transport information				
Dangerous goods number	None			
UN number	None			
Packaging	30kg plastic drum			
Transport ways	By sea, railway, road			
SECTION 15 Lows and regulation information				
No belong to dan	gerous goods in GB 12268-1990 《Name List of Hazardous Chemicals》			
SECTION 16 Other information				
Other information	None			
Filling date	2015.03.25			
Amend description	Revision 0			
Amend information	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 the information and any recommendations or suggestions are made without warranty or guarantee. The information only concerns the above product a supplied and may not be valid if used with other product(s) or in any process. 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 use of this preparation. The information in this sheet does not represent analytical specifications.			