

FIXING AGENT MATERIAL SAFETY DATA SHEET			
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SECTION 1 Chemicals and corporate identify			
English name	Fixing agent	Model number	GR-F102
Trade name	Formaldehyde-free fixing agent	MSDS NO.	MSDS#201807
Supplier name	Zibo Green Trade Co.,Ltd	Supplier address	Zhoucun textile science and technology five west 18, Zibo city, China.
Supplier tel.	86533-2722853	Supplier fax	86533-2722853
SECTION 2 Risk overview			
Risk category	No transport hazardous		
Invasion pathways	Eyes and skin contact, inhalation, ingestion		
Health hazards	No detailed toxicological studies. Avoid direct contact, prevent inhalation.		
Explosion hazard	Do not belong to flammable substances.		
Ingestion	Ingestion will cause stomach pain, nausea, vomit, diarrhea.		
SECTION 3 Ingredient/component information			

Ingredient	Polyamine cationic compound
SECTION 4 First aid measures	
Skin contact	Remove pollutant, rinse with plenty of water immediately. Get medical advice when irritation occur.
Eye contact	Rinse eyes with plenty of water at least for 15 minutes thoroughly, if wear glasses, remove it, then get medical attention at once.
Inhalation	Remove from exposure and move to fresh air. If symptoms of irritation or sensitization occur (ex. shortness of breath, transient or acute coughing), call a doctor.
Ingestion	If ingested, can induce vomiting, get medical advice at once.
SECTION 5 Fire-fighting measures	
Flash point	Not exhibited
Flammability	Nonflammable
Special protective device	Wear self-contained breathing apparatus, wear protective clothing.
Suitable Fire Extinguishing media	Use versatile foam to extinguish the fire. Small fire can use carbon dioxide, or dry powder extinguisher.
Non-suitable Fire Extinguishing media	Wear self-contained breathing apparatus, wear protective clothing.
Additional information	None
SECTION 6 Leakage emergency measures	
Emergency Treatment	Spilled preparation should be removed immediately. Flush spill area with plenty of water. Remove and wash contaminated clothing.
SECTION 7 Handling and storage	
Handling	The usual precautions when handling chemicals should be observed. When using the product, do not eat, drink or smoke. Avoid spilling, skin and eye contact. Ensure good ventilation in the room when handling the product.
Storage	Use after opening in time. Avoid exposure to high temperature and air.
SECTION 8 Contact control/personal protection	
Maximum allowable concentration	No formulate standard
Monitoring methods	None

Engineering control	Provide eye wash station and safety shower. Mechanical ventilation or local exhaust ventilation may be required.
Eyes protection	Wear fitting safety goggles, protective glasses or eye shield
Body protection	Use suitable protective clothing
Hands protection	Use PVC/Rubber gloves
Breath system protection	Not required under normal conditions of use
SECTION 9 Physical and chemical property	
Appearance	Light yellow to yellow liquid
Ionicity	Cationic
PH value	5.0--8.0(1% slurry)
Solubility	Can be diluted in any ratio with water.
SECTION 10 Stability and reactivity	
Stability	Stable under recommended storage and handling conditions.
Conditions to avoid	Avoid fire and other combustible resources.
Materials to avoid	None
Hazardous decomposition products	None
SECTION 11 Toxicological information	
Acute toxicity	None
Irritation	Inappropriate handling may cause sensitization and allergic reactions in sensitized individuals. Prolonged skin contact may cause irritation.
SECTION 12 Ecology information	
Ecotoxicity	None
Biodegradation	None
Non-biodegradation	None
SECTION 13 Disposal	
Litter nature	No belong to dangerous litter.

Disposal consideration	No special disposal method is required. Dispose of in accordance with current local authority regulations and requirements.
SECTION 14 Transport information	
Dangerous goods number	None
UN number	None
Packaging	120kg plastic drum.
SECTION 15 Lows and regulation information	
No belong to dangerous goods in GB 12268-1990 《Name List of Hazardous Chemicals》	
SECTION 16 Other information	
Other information	None
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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.