

# SAFETY DATA SHEET

## Fixing agent 706

### SECTION 1. Identification of Substance and Company

**Product** : Fixing agent 706

**Company** : Suzhou Liansheng Chemistry Co., Ltd.

**Address** : Yantang Industrial Zone, Weitang Town, Xiangcheng District, Suzhou, China.

**Post Code**: 215134

**Emergency Tel**: 86-512-65906880

**Fax**: 86-512-65905880

**Website** : [www.lshx.cn](http://www.lshx.cn)

### SECTION 2. Hazards Identification

**Hazard class and hazard category** : Skin irritation, category 2. Eye irritation, category 2A.

Specific Target Organ Toxicity – Single exposure, category 3

**Signal word** : Warning

**Hazard statements** : H315-Causes skin irritation H319-Causes serious eye irritation  
H335-May causes respiratory irritation

#### Precautionary statements

**Prevention** : P260 Do not breathe dust/fume/gas/mist/vapours/spray. P264

Wash hands thoroughly after handling. P280-Wear protective gloves/protective clothing/eye protection/face protection. P271 Use only outdoors or in a well-ventilated area.

**Response** : P302+P352 IF ON SKIN: wash with plenty of soap and water. P332+P313 IF SKIN irritation occurs: Get medical advice/attention. P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. P337+P313 IF eye irritation persists: Get medical advice/attention. P304+P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.

**Symbol**



**Other hazards which do not result in classification** : None known.

### SECTION 3. Composition/information on ingredients

**Chemical properties**: Mixture

**Composition Information**:

Poly(diallyl dimethyl ammonium chloride)	26062-79-3	50%
Polyethylenimine	25987-06-8	28%
water	7732-18-5	22%

### SECTION 4. First aid measures

**Description of necessary first aid measures**

**Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if

adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Ingestion :** Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Skin contact:** Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Eye contact :** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

## **SECTION 5. Flammability & explosibility and fire fighting measures**

### **Extinguishing media**

**Suitable :** Use an extinguishing agent suitable for the surrounding fire

**Not suitable :** none known

**Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst

This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:

carbon dioxide; carbon monoxide ; nitrogen oxides

**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.

**Remark :** Not available.

## **SECTION 6 Leakage Emergency Measures**

### **Emergency measures:**

**Personal protection:** keep away from eyes and wear protective articles.

**Environment protection :** limit entry of nonproduction workers and collect and put leakage material in sealed container, rinse the spot and discharge waste water into specified water treatment system.

## **SECTION 7 Handle and storage**

### **Handle**

Take care of load and unload in order to avoid sprinkle due to package breakage. easily

agglomerate exposed to the moisture, it's unadvisable to handle them when raining, unless under rain shelter.

### Storage

Can be stored one year in cool and well-ventilated warehouse, avoid insolation, seal the drum immediately after use, the shelf life is 12 months.

## SECTION 8 Exposure controls/personal protection

### Appropriate engineering

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

### 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.

**Engineer Control:** keep workshop and storage room ventilated and materials sealed.

**Operation Protection:** keep materials away from eyes and ventilate during production and usage. Thoroughly rinse after operation.

### Personal 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. Use gloves approved to relevant standards e.g. EN 374 (Europe), F739 (US). Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material and dexterity. Always seek advice from glove suppliers.



必须戴防护眼镜



必须戴口罩



必须穿工作服



必须戴防护手套

**Eye 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 :** 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.

## SECTION 9. Physical and chemical Properties

**Appearance:** liquid

**Color:** yellowish to yellow transparent

**Odor:** slightly odorous

**pH:** 6.0-7.5 (1% aqueous solution)

**Solubility:** can be diluted with water by any ratio.

**Flammability (solid, gas) :** Not available.

**Vapour pressure:** Not available.

## **SECTION 10. Stability and Reactivity**

**Chemical stability:** stable under in cool and well ventilated conditons.

**Possibility of hazardous :** Under normal conditions of storage and use, hazardous reactions

**Reactions** will not occur

**Conditions to be avoided:** No specific data.

**Hazardous decomposition :** Under normal conditions of storage and use, hazardous decomposition

**Products** products should not be produced.

## **SECTION 11. Toxicological Information**

### **Information on the likely routes of exposure**

**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.

### **Symptoms related to the physical, chemical and toxicological characteristics**

**Inhalation :** No specific data.

**Ingestion :** No specific data.

**Skin contact :** No specific data.

**Eye contact :** No specific data.

**Acute Toxicity : LD<sub>50</sub> /( rat ) >2000mg/kg**

### **Primary irritant effect:**

**On the skin:** non-irritant

**Inhalation:** has no affect on respiratory tract due to non volatile flake.。

**Skin sensitization:** no occur about allergic reaction, wash thoroughly after contact skin.

### **Potential chronic health effects**

**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.

**Carcinogenicity :** No known significant effects or critical hazards.

**Mutagenicity :** No known significant effects or critical hazards.

**Teratogenicity :** No known significant effects or critical hazards.

**Developmental effects :** No known significant effects or critical hazards.

**Fertility effects :** No known significant effects or critical hazards.

### **Delayed and immediate effects and also 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 .

**Aspiration hazard :** Not available .

## **SECTION 12. Ecological Information**

**Environmental effects :** Not readily biodegradable, water polluting material.May be harmful to the

environment if released in large quantities. This material is toxic to aquatic life with long lasting effects.

**Aquatic and terrestrial toxicity**

LC50: >200mg/L ( OECD 202 Daphnia sp. acute immobilisation test )

**Ecological Degradation:** >60%

**Mobility :** Not available

**BOD5 :** 150mg O<sub>2</sub>/ g

**COD :** 300mg O<sub>2</sub>/ g

**Metal Content :** Metal content under the ETAD recommended limits.

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

### **SECTION 13. Disposal consideration**

**Disposal methods:** 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. Waste can't be discharged into sewer and any water area or on ground unless fully compliant with the requirements of all authorities with jurisdiction. This material and its container must be disposed of in a safe way.

### **SECTION 14. Transport Information**

**International transport regulations**

**14.1-14.4 UN number; UN proper shipping name; Transport hazard class(es); Packing group**

**Road ADR:**

**Valuation :** Not regulated for transport

**Railway RID :**

**Valuation :** Not regulated for transport

**Transport by sea IMDG-Code:**

**Valuation :** Not regulated for transport

**14.5 Environmental hazards**

Hazardous to the environment: no

**14.6 Special precautions for user**

Relevant information in other sections have to be considered

**14.7 Transport in bulk according to Annex II of MARPOL73/78 and IBC Code**

Bulk transport in tankers is not intended.

### **SECTION 15. National and International Regulations**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

National and local regulations must be observed.

**15.2 Other international regulations**

**Details of international registration status:**

Listed on or in accordance with the following inventories:

EINECS- Europe

### **SECTION 16. Other Information**

This information is based on our present knowledge and is certainly correct and latest. However, it shall not constitute commitment and responsibility for any specific products. Only as instructed as to be used by clients, it shall not establish a legally valid contractual relationship.