

# Material Safety Data Sheet



## 1: Identification of the substance / company information

### 1.1 Product identifier

Commercial product name: DiverSol® 779P  
Product identifier: Vinyl acetate-ethylene copolymer emulsion  
CAS No.: 24937-78-8

### 1.2 Manufacturer / Supplier Identification

Manufacturer/distributor: Yunnan Zhengbang Technology Co., Ltd  
Street/POB-No.: No.8 road, Haikou industrial park, Haikou town, Xishan district, Kunming, Yunnan province  
Postal code/city: 650224 Kunming  
Country: P.R. China  
Web: www.ynzhengbang.com

### 1.3 Emergency telephone number

Telephone: +86 871 63332488  
Telefax: +86 871 63859977

## 2: Hazards identification

### 2.1 Hazards Category

May cause an allergic skin reaction.

### 2.2 Other

Wear protective gloves/protective clothing/eye protection/face protection.  
Contaminated work clothing should not be allowed out of the workplace.  
If skin irritation or rash occurs: Get medical advice/attention.  
IF ON SKIN: Wash with plenty of water.  
Take off contaminated clothing and wash it before reuse.  
Dispose of contents/container in accordance with local/regional/national/international regulations.

## 3: Composition / Information on ingredients

### 3.1 Chemical characteristics

#### Mixtures

**Description:** Mixture: consisting of the following components

Dangerous Components	CAS No.:	55965-84-9
	Chemical formula:	3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone
	Hazardous:	Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; Skin Corr. 1B, H314; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1, H317
	Concentration:	≤0.0035%
	Substance Name:	vinyl acetate
	CAS No.:	108-05-4
Non-Hazardous Components	Hazardous:	Flam. Liq. 2, H225; Carc. 2, H351; Acute Tox. 4, H332; STOT SE 3, H335; Acute Tox. 5, H303; Aquatic Chronic 3, H412
	Concentration:	0.5%max
	Substance Name:	Vinyl acetate-ethylene copolymer emulsion

# Material Safety Data Sheet



CAS No.:	24937-78-8
Concentration:	57%max
<hr/>	
Substance Name:	Water
CAS No.:	7732-18-5
Concentration:	42%min

## 4: First aid measures

- 4.1 Skin Contact:** Rinse cautiously with water for several minutes.
- 4.2 Eye Contact:** Rinse opened eye for 15 minutes under running water. If symptom persists consult a doctor.
- 4.3 Inhalation:** Remove from exposure area to fresh air immediately. Give artificial respiration if no breathing. Get immediate medical attention.
- 4.4 Swallowing:** Rinse out mouth and then drink plenty of water. Do not induce vomiting; call for medical help immediately.

## 5: Fire aid measures

- 5.1 Suitable extinguishing media**  
This product is non-flammable under normal circumstances. Water, foam, carbon dioxide can be used to extinguish fire.
- 5.2 Chemical special risks**  
Combustion of dried-up substance will release carbon oxides (CO, CO<sub>2</sub>).
- 5.3 Advice for firefighters**  
Use water spray to cool unopened containers.
- 5.4 Special protective equipment for fire fighting**  
If necessary, wear fully protective suit and air respirator.

## 6: Accidental release measures

- 6.1 Person-related precautionary measure**  
Wear protective equipment; Ensure good ventilation and local exhaustion of the working area; Keep unprotected persons away.
- 6.2 Methods and material for containment and cleaning up**  
Collect, bind, and pump off spills. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Allow to solidify. Pick up mechanically.
- 6.3 Environmental precautions**  
Do not allow to enter sewers/ surface or ground water.

## 7: Handling and storage

- 7.1 Precautions for safe handling**  
Ensure adequate ventilation. Wear protective gloves/protective clothing/eye protection/face protection.
- 7.2 Storage**  
Requirements to be met by storerooms and receptacles: Store in cool, dry place in tightly closed receptacles.  
storage conditions: Store at 5 °C to 40 °C.

## 8: Exposure controls/personal protection

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

# Material Safety Data Sheet

## 8.1 General protective and hygienic measures

Wash hands before breaks and at the end of work.

## 8.2 Breathing system protection

Not necessary if room is well-ventilated. Use suitable respiratory protective device in case of insufficient ventilation.

Short term filter device: Filter A/P2

## 8.3 Eye protection



Safety glasses with side shields conforming to EN166, ANSI 87.1-2010, or equivalent.

## 8.4 Hand protection



Protective gloves

The selected protective gloves have to satisfy the specifications of standard EN 374 or its equivalent.

Replace gloves immediately when torn or any change in appearance (dimension, colour, flexibility etc) is noticed.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

## 8.5 Body protection

Protective work clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

## 9: Physical and chemical properties

<b>Form:</b>	Liquid Emulsion	<b>Color:</b>	Whitish
<b>Odor:</b>	faint	<b>Odour threshold:</b>	Not determined
<b>pH value:</b>	4.5-6.5	<b>Flash point:</b>	Not applicable
<b>Melting point/Melting range:</b>	Undetermined	<b>Boiling point/Boiling range:</b>	Undetermined
<b>Flammability:</b>	Not determined	<b>Decomposition temperature:</b>	Not determined
<b>Autoignition temperature:</b>	Not applicable	<b>Explosion limits:</b>	Not determined
<b>Vapour pressure:</b>	Not applicable	<b>Density</b>	1.07 g/cm <sup>3</sup>
<b>Relative density:</b>	Not determined	<b>Viscosity:</b>	2500-4000 mPa.s
<b>Solubility in water:</b>	Fully miscible		

## 10: Stability and reactivity

### 10.1 Reactivity

When properly handled and stored, no dangerous reaction is known.

### 10.2 Stability

This material is considered stable under specified conditions of storage, shipment and / or use.

### 10.3 Conditions to avoid

Protect from heat. Keep ignition sources away.

### 10.4 Incompatible materials

Strong oxidizing agents.

### 10.5 Hazardous decomposition products

Thermal decomposition may yield the following: -carbon monoxide, -carbon dioxide.

# Material Safety Data Sheet



## 11: Toxicological information

### 11.1 Information on toxicological effects

**Acute toxicity:** Not classified based on available data.

**Skin corrosion/irritation:** Not classified based on available data.

**Serious eye damage/eye irritation:** Not classified based on available data.

**Respiratory or skin sensitization:** May cause an allergic skin reaction. Contributing component: Biocide/fungicide (CAS No. 55965-84-9)

**Germ Cell Mutagenicity:** Not classified based on available data.

**Carcinogenicity:** Not classified based on available data. This product contains an impurity, vinyl acetate (CAS No. 108-05-4). IARC classified vinyl acetate as carcinogen Group 2B (Possibly carcinogenic to humans). The concentration of the impurity is below classifying threshold of 1,0 %. IARC 2B is a classification for possible human carcinogen based on sufficient evidence on carcinogenicity in experimental animals, but inadequate evidence for cancer in exposed humans.

**Reproductive Toxicity:** Not classified based on available data.

**Specific Target Organ Toxicity - Single Exposure (STOT SE):** Not classified based on available data.

**Specific Target Organ Toxicity - Repeated Exposure (STOT RE):** Not classified based on available data.

**Aspiration Hazard:** Not classified due to lack of data.

**Primary irritant effect:** Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation Based on available data, the classification criteria are not met.

**Respiratory or skin sensitization:** May cause an allergic skin reaction.

## 12: Ecological information

### 12.1 Toxicity

Aquatic toxicity: Not classified based on available data.

### 12.2 Persistence and degradability

No further relevant information available.

### 12.3 Bioaccumulative potential

No further relevant information available.

### 12.4 Mobility in soil

No further relevant information available.

## 13: Disposal considerations

### 13.1 Waste treatment methods

Observe local/state/federal regulations.

### 13.2 Uncleaned packaging

Containers may be recycled or re-used after thorough and proper cleaning. Observe local/state/federal regulations.

## 14: Transport information

<b>Dangerous goods code:</b>	Not regulated
<b>UN Number:</b>	Not regulated
<b>UN proper shipping name:</b>	Not regulated
<b>Transport hazard class:</b>	Not regulated
<b>Categories of packing:</b>	Not regulated
<b>Cautions during transportation:</b>	Complete package. Avoid solarization, and high temperature.

# Material Safety Data Sheet



## 15: Regulatory information

### 15.1 Status of global inventories

China – IECSC  
Europe-ELINCS  
Australia - AICS  
Korea - KECI  
New Zealand-NZIOOC  
United States-TSCA  
Canada-DSL  
Japan-ENCS  
Philippines-PICCS  
Taiwan-ECSN

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

## 16: Other information

### 16.1 Abbreviations and acronyms

EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
Flam. Liq. 2: Flammable liquids, Hazard Category 2  
Acute Tox. 3: Acute toxicity, Hazard Category 3  
Acute Tox. 5: Acute toxicity, Hazard Category 5  
Acute Tox. 4: Acute toxicity, Hazard Category 4  
Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B  
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1  
Carc. 2: Carcinogenicity, Hazard Category 2  
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3  
Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1  
Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1  
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

### 16.2 General Disclaimers

The details in this document are based on the state of our knowledge at the time of revision. They do not constitute an assurance of the described product properties in terms of statutory warranty requirements. The providing of this document to a recipient does not relieve the recipient of his or her responsibility toward compliance with all laws and stipulations applicable to the product. This applies in particular to the further sale or distribution of the product or substances or items containing the product, in other jurisdictions and with regard to the protection of third-party intellectual property rights. If the described product is processed or mixed with other substances or materials, the details stated in this document cannot be conferred to the resultant new product unless this has been expressly mentioned. If the product is repackaged, the recipient is obligated to additionally provide the required safety-related information.

### 16.3 Further information

None

- End of Safety Data Sheet -

# Material Safety Data Sheet



# Material Safety Data Sheet



## 1: Identification of the substance / company information

### 1.1 Product identifier

Commercial product name: DiverSol® 777  
Product identifier: Vinyl acetate-ethylene copolymer emulsion  
CAS No.: 24937-78-8

### 1.2 Manufacturer / Supplier Identification

Manufacturer/distributor: Yunnan Zhengbang Technology Co., Ltd  
Street/POB-No.: No.8 road, Haikou industrial park, Haikou town, Xishan district, Kunming, Yunnan province  
Postal code/city: 650224 Kunming  
Country: P.R. China  
Web: www.ynzhengbang.com

### 1.3 Emergency telephone number

Telephone: +86 871 63332488  
Telefax: +86 871 63859977

## 2: Hazards identification

### 2.1 Hazards Category

May cause an allergic skin reaction.

### 2.2 Other

Wear protective gloves/protective clothing/eye protection/face protection.  
Contaminated work clothing should not be allowed out of the workplace.  
If skin irritation or rash occurs: Get medical advice/attention.  
IF ON SKIN: Wash with plenty of water.  
Take off contaminated clothing and wash it before reuse.  
Dispose of contents/container in accordance with local/regional/national/international regulations.

## 3: Composition / Information on ingredients

### 3.1 Chemical characteristics

#### Mixtures

**Description:** Mixture: consisting of the following components

Dangerous Components	CAS No.:	55965-84-9
	Chemical formula:	3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone
	Hazardous:	Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; Skin Corr. 1B, H314; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1, H317
	Concentration:	≤0.0035%
	Substance Name:	vinyl acetate
	CAS No.:	108-05-4
Non-Hazardous Components	Hazardous:	Flam. Liq. 2, H225; Carc. 2, H351; Acute Tox. 4, H332; STOT SE 3, H335; Acute Tox. 5, H303; Aquatic Chronic 3, H412
	Concentration:	0.5%max
	Substance Name:	Vinyl acetate-ethylene copolymer emulsion

# Material Safety Data Sheet



CAS No.:	24937-78-8
Concentration:	57%max
<hr/>	
Substance Name:	Water
CAS No.:	7732-18-5
Concentration:	42%min

## 4: First aid measures

- 4.1 Skin Contact:** Rinse cautiously with water for several minutes.
- 4.2 Eye Contact:** Rinse opened eye for 15 minutes under running water. If symptom persists consult a doctor.
- 4.3 Inhalation:** Remove from exposure area to fresh air immediately. Give artificial respiration if no breathing. Get immediate medical attention.
- 4.4 Swallowing:** Rinse out mouth and then drink plenty of water. Do not induce vomiting; call for medical help immediately.

## 5: Fire aid measures

- 5.1 Suitable extinguishing media**  
This product is non-flammable under normal circumstances. Water, foam, carbon dioxide can be used to extinguish fire.
- 5.2 Chemical special risks**  
Combustion of dried-up substance will release carbon oxides (CO, CO<sub>2</sub>).
- 5.3 Advice for firefighters**  
Use water spray to cool unopened containers.
- 5.4 Special protective equipment for fire fighting**  
If necessary, wear fully protective suit and air respirator.

## 6: Accidental release measures

- 6.1 Person-related precautionary measure**  
Wear protective equipment; Ensure good ventilation and local exhaustion of the working area; Keep unprotected persons away.
- 6.2 Methods and material for containment and cleaning up**  
Collect, bind, and pump off spills. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Allow to solidify. Pick up mechanically.
- 6.3 Environmental precautions**  
Do not allow to enter sewers/ surface or ground water.

## 7: Handling and storage

- 7.1 Precautions for safe handling**  
Ensure adequate ventilation. Wear protective gloves/protective clothing/eye protection/face protection.
- 7.2 Storage**  
Requirements to be met by storerooms and receptacles: Store in cool, dry place in tightly closed receptacles.  
storage conditions: Store at 5 °C to 40 °C.

## 8: Exposure controls/personal protection

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.



# Material Safety Data Sheet

## 8.1 General protective and hygienic measures

Wash hands before breaks and at the end of work.

## 8.2 Breathing system protection

Not necessary if room is well-ventilated. Use suitable respiratory protective device in case of insufficient ventilation.

Short term filter device: Filter A/P2

## 8.3 Eye protection



Safety glasses with side shields conforming to EN166, ANSI 87.1-2010, or equivalent.

## 8.4 Hand protection



Protective gloves

The selected protective gloves have to satisfy the specifications of standard EN 374 or its equivalent.

Replace gloves immediately when torn or any change in appearance (dimension, colour, flexibility etc) is noticed.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

## 8.5 Body protection

Protective work clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

## 9: Physical and chemical properties

<b>Form:</b>	Liquid Emulsion	<b>Color:</b>	Whitish
<b>Odor:</b>	faint	<b>Odour threshold:</b>	Not determined
<b>pH value:</b>	4.5-6.5	<b>Flash point:</b>	Not applicable
<b>Melting point/Melting range:</b>	Undetermined	<b>Boiling point/Boiling range:</b>	Undetermined
<b>Flammability:</b>	Not determined	<b>Decomposition temperature:</b>	Not determined
<b>Autoignition temperature:</b>	Not applicable	<b>Explosion limits:</b>	Not determined
<b>Vapour pressure:</b>	Not applicable	<b>Density</b>	1.07 g/cm <sup>3</sup>
<b>Relative density:</b>	Not determined	<b>Viscosity:</b>	2500-4000 mPa.s
<b>Solubility in water:</b>	Fully miscible		

## 10: Stability and reactivity

### 10.1 Reactivity

When properly handled and stored, no dangerous reaction is known.

### 10.2 Stability

This material is considered stable under specified conditions of storage, shipment and / or use.

### 10.3 Conditions to avoid

Protect from heat. Keep ignition sources away.

### 10.4 Incompatible materials

Strong oxidizing agents.

### 10.5 Hazardous decomposition products

Thermal decomposition may yield the following: -carbon monoxide, -carbon dioxide.

# Material Safety Data Sheet



## 11: Toxicological information

### 11.1 Information on toxicological effects

**Acute toxicity:** Not classified based on available data.

**Skin corrosion/irritation:** Not classified based on available data.

**Serious eye damage/eye irritation:** Not classified based on available data.

**Respiratory or skin sensitization:** May cause an allergic skin reaction. Contributing component: Biocide/fungicide (CAS No. 55965-84-9)

**Germ Cell Mutagenicity:** Not classified based on available data.

**Carcinogenicity:** Not classified based on available data. This product contains an impurity, vinyl acetate (CAS No. 108-05-4). IARC classified vinyl acetate as carcinogen Group 2B (Possibly carcinogenic to humans). The concentration of the impurity is below classifying threshold of 1,0 %. IARC 2B is a classification for possible human carcinogen based on sufficient evidence on carcinogenicity in experimental animals, but inadequate evidence for cancer in exposed humans.

**Reproductive Toxicity:** Not classified based on available data.

**Specific Target Organ Toxicity - Single Exposure (STOT SE):** Not classified based on available data.

**Specific Target Organ Toxicity - Repeated Exposure (STOT RE):** Not classified based on available data.

**Aspiration Hazard:** Not classified due to lack of data.

**Primary irritant effect:** Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation Based on available data, the classification criteria are not met.

**Respiratory or skin sensitization:** May cause an allergic skin reaction.

## 12: Ecological information

### 12.1 Toxicity

Aquatic toxicity: Not classified based on available data.

### 12.2 Persistence and degradability

No further relevant information available.

### 12.3 Bioaccumulative potential

No further relevant information available.

### 12.4 Mobility in soil

No further relevant information available.

## 13: Disposal considerations

### 13.1 Waste treatment methods

Observe local/state/federal regulations.

### 13.2 Uncleaned packaging

Containers may be recycled or re-used after thorough and proper cleaning. Observe local/state/federal regulations.

## 14: Transport information

<b>Dangerous goods code:</b>	Not regulated
<b>UN Number:</b>	Not regulated
<b>UN proper shipping name:</b>	Not regulated
<b>Transport hazard class:</b>	Not regulated
<b>Categories of packing:</b>	Not regulated
<b>Cautions during transportation:</b>	Complete package. Avoid solarization, and high temperature.

# Material Safety Data Sheet



## 15: Regulatory information

### 15.1 Status of global inventories

China – IECSC  
Europe-ELINCS  
Australia - AICS  
Korea - KECI  
New Zealand-NZIOOC  
United States-TSCA  
Canada-DSL  
Japan-ENCS  
Philippines-PICCS  
Taiwan-ECSN

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

## 16: Other information

### 16.1 Abbreviations and acronyms

EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
Flam. Liq. 2: Flammable liquids, Hazard Category 2  
Acute Tox. 3: Acute toxicity, Hazard Category 3  
Acute Tox. 5: Acute toxicity, Hazard Category 5  
Acute Tox. 4: Acute toxicity, Hazard Category 4  
Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B  
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1  
Carc. 2: Carcinogenicity, Hazard Category 2  
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3  
Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1  
Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1  
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

### 16.2 General Disclaimers

The details in this document are based on the state of our knowledge at the time of revision. They do not constitute an assurance of the described product properties in terms of statutory warranty requirements. The providing of this document to a recipient does not relieve the recipient of his or her responsibility toward compliance with all laws and stipulations applicable to the product. This applies in particular to the further sale or distribution of the product or substances or items containing the product, in other jurisdictions and with regard to the protection of third-party intellectual property rights. If the described product is processed or mixed with other substances or materials, the details stated in this document cannot be conferred to the resultant new product unless this has been expressly mentioned. If the product is repackaged, the recipient is obligated to additionally provide the required safety-related information.

### 16.3 Further information

None

- End of Safety Data Sheet -

# Material Safety Data Sheet

