

## CERTIFICATE OF ANALYSIS

### 产品分析报告

<b>Product Name</b> (产品名称):	<b>EQC1000(Triclosan)</b>	<b>Analysis Date</b> (分析日期):	<b>Jun.16,2015</b>
<b>Batch No.</b> (批号):	<b>1506016</b>	<b>Quantity</b> (数量):	<b>1000kg</b>
<b>Production Date</b> (生产日期):	<b>Jun.16,2015</b>	<b>Expiry Date</b> (有效日期):	<b>Jun.15,2018</b>
<b>Package size</b> (包装):	<b>25 kg/drum</b>	<b>Reference</b> (参考依据):	<b>USP</b>

Items(项目)	Acceptance criteria (质量指标)	Results (结果)
Appearance 外观	White crystalline powder 白色结晶粉末	White crystalline powder 白色结晶粉末
Identification 鉴别	A. IR spectrum consistent with that obtained with Triclosan RS.红外光谱与标准一致	Consistent 一致
	B. The retention time of the major peak of the Assay preparation corresponds to that of the Standard preparation, as obtained in the Assay 保留时间与标准相符合	Conforms 符合
Water 水分	≤ 0.1%	0.08%
Residue on ignition 灼烧残渣	≤ 0.1%	0.024%
Heavy metals 重金属	≤ 0.002%	< 0.002%
Melting Point 熔点	56°C ~ 58°C	56.1°C~57.5°C
Related substances 有关物质	Any individual impurity 单个杂质: ≤ 0.1%	0.08%
	Total impurities 总杂质: ≤ 0.5%	0.15%
Assay 含量	97.0~103.0%	99.85%
Monochlorophenols 单氯苯酚	≤ 50ppm	< 50ppm
2,4-Dichlorophenol 2,4-二氯苯酚	≤ 10ppm	< 10ppm
1,3,7-Trichlorodibenzo-p-Dioxin 1,3,7-三氯二苯并二恶英	≤ 0.25ppm	< 0.25ppm
2,8-Dichlorodibenzo-p-Dioxin 2,8-二氯二苯并二恶英	≤ 0.50ppm	< 0.50ppm
2,8-Dichlorodibenzofuran 2,8-二氯二苯并呋喃	≤ 0.25ppm	< 0.25ppm
2,4,8-Trichlorodibenzofuran 2,4,8-三氯二苯并呋喃	≤ 0.50ppm	< 0.50ppm
2,3,7,8-Tetrachloro dibenzo-p-Dioxin 2,3,7,8-四氯二苯并二恶英	≤ 1ppt	< 1ppt
2,3,7,8-Tetrachloro dibenzofuran 2,3,7,8-四氯二苯并呋喃	≤ 1ppt	< 1ppt

**Remarks (备注):**

**This batch of Triclosan complies with specification of USP30. (本批产品质量符合 USP30 标准)**

**Operated**

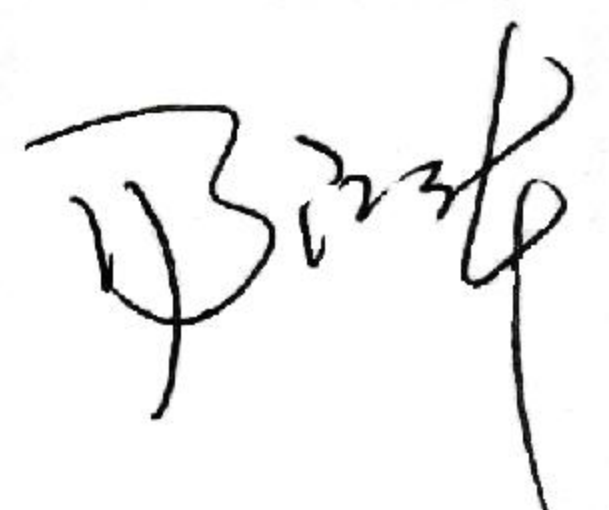
(检验): 王欢欢

**Checked**

(复核): 陈丽娟

**Approved**

(批准):



# **Material Safety Data Sheet**

**TRICLOSAN**

**Jiangsu Equalchem Co., Ltd.**

**DEC. 10, 2014**

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# Material Safety Data Sheet

Date Printed: 15/MAR/2008

Date Updated: 10/DEC/2014

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## 1. Product and Company Information

Product Name	EQC1000
Company	Jiangsu Equalchem Co., Ltd.
Technical Phone #	+86-513-80923005
Fax	+86-513-80923009
Emergency Phone #	+86-513-80923002

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## 2. Composition / Information on Ingredients

Product Name	CAS #
2,4,4'-trichloro-2'-hydroxy diphenyl ether	3380-34-5
Formula	$C_{12}H_7Cl_3O_2$
Molecular Weight	289.5
Synonyms	Triclosan 2,4,4'-trichloro-2'-hydroxy diphenyl ether 5-chloro-2-(2,4-dichlorophenoxy)phenol Irgasan, DP300

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## 3. Hazards Identification

### SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT

Irritating to eyes and skin. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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## 4. First Aid Measures

### AFTER INHALATION

If inhaled, remove to fresh air. If not breathing give artificial respiration.

If breathing is difficult, give oxygen.

### AFTER SKIN CONTACT

In case of contact, immediately wash skin with soap and copious amounts of water.

### AFTER EYE CONTACT

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

### AFTER INGESTION

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

## 5. Fire Fighting Measures

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### EXTINGUISHING MEDIA

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

### SPECIAL RISKS

Specific Hazard(s) : Emits toxic fumes under fire conditions

### SPECIAL PRTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

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## 6. Accidental Release Measures

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### PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

### METHODS FOR CLEANING UP

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

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## 7. Handling and Storage

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### HANDLING

Directions for safe handling Do not breathe dust. Avoid contact with eye, skin, and clothing. Avoid prolong or repeated exposure.

### STORAGE

Conditions of storage : Keep tightly closed, kept in dry, dark and well-ventilated place. The storage temperature is never above 40 centigrade degree.

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## 8. Exposure Controls / Personal Protection

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### ENGINEERING CONTROLS

Safety shower and eye bath. Mechanical exhaust required.

### GENERAL HYGIENE MEASURES

Wash thoroughly after handling.

### PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Government approved respirator.

Hand Protection: Compatible chemical-resistant gloves.

Eye Protection: Chemical safety goggles.

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## 9. Physical and Chemical Properties

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Physical state	Solid
Color	White
pH	Not applicable

## EQUALCHEM

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Boiling Point Range	Not applicable
Melting Point Range	56–58°C (133–136°F)
Solubility in water	0.01g/L(20°C)
Vapor Density	Not applicable
Vapor Pressure	$7 \times 10^{-4}$ Pa
SG/Density	Not applicable
Flash Point	Not applicable
Decomposition Temp.	>280°C (536°F)
Explosive Properties	Not applicable
Explosion Limits	Not applicable

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### 10. Stability and Reactivity

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#### STABILITY

Stable: Stable.

Materials to Avoid: Strong oxidizing agents.

#### CONDITION TO AVOID

Avoid static discharge

#### INCOMPATIBILITY

Strong-oxidizing agents, strong acids, strong bases

#### HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Hydrogen chloride gas Carbon monoxide, Carbon dioxide.

#### HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

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### 11. Toxicological Information

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#### ACUTE TOXICITY

Oral Toxicity(LD50)	3700mg/kg (Rat)	4530 mg/kg (Mouse)
Intraperitoneal Toxicity(LD50)	89 kg/kg (Rat)	84 kg/kg(Mouse)
Subcutaneous Toxicity(LD50)	3900 mg/kg (Rat)	3800 mg/kg(Mouse)
Intravenous Toxicity(LD50)	29 kg/kg (Rat)	
Dermal Toxicity(LD50)	6000mg/kg (Rat)	

#### IRRITATION DATA

Skin	0.75mg (Human)	10% (Rabbit)
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#### SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

#### ROUTE OF EXPOSURE



## EQUALCHEM

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Clean Air Act-Ozone Depleting Substances (ODS) : Not listed  
Clean Water Act-Priority Pollutants (PP): Not listed  
SARA: Not listed  
TSCA Inventory Item: YES  
FDA Status: API

### CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES

ANNEX I INDEX NUMBER: 604-070-00-9

INDICATION OF DANGER: Xi-N

Irritating. Danger for the environment.

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### 16. Other Information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Jiangsu Equalchem.Co., Ltd., shall not be held liable for any damage resulting from handling or from contact with the above product. The user is responsible for determining whether the product is suitable for its intended conditions of use.