



## CSFC TAIWAN ENTERPRISE CORPORATION

Head Office: 3F, No. 14, Cuizhu North Road, Yangzhong, Jiangsu, China  
Tel: +86-511-88365501 Fax: +86-511-88350971 Post code:212200  
Homepage: [www.csfchem.com](http://www.csfchem.com)

### MATERIAL SAFETY DATA SHEET CSFC 1024

DATE ISSUED: April 12, 2005  
DATE REVISED: Aug 7, 2009  
PAGE: 1-5

#### SECTION 1 IDENTIFICATION OF THE SUBSTANCE

**Product name** CSFC 1024  
**Chemical identification** 2-[3-[3,5-bis(1,1-dimethylethyl)-4-  
**CAS Number** 32687-78-8  
**Use** Stabilizer

#### SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

| CAS Number | product name  | content | R-phrases(s) |
|------------|---|---------|--------------|
| 32687-78-8 | 2-[3-[3,5-bis(1,1-dimethylethyl)-4-<br>hydroxyphenyl]-1-oxopropyl]hydrazide | 100%    | R52/53       |

#### SECTION 3 HAZARDS IDENTIFICATION

Not classified as hazardous according the EU directives.  
No special hazards.

#### SECTION 4 FIRST AID MEASURES

##### Skin contact

Wash off with soap and plenty of water. Do not use organic solvents.

##### Eye contact

Rinse immediately with plenty of water for at least 15 minutes. In case of eye irritation, seek medical attention.

##### Inhalation

Move to fresh air. In case of irritation of respiratory system or mucous membranes, seek medical attention. In case of indisposition, seek medical attention. In case of prolonged exposure, seek medical attention.

##### Ingestion

Immediately give plenty (> 500 ml) of water (if possible charcoal slurry). In case of spontaneous vomiting be sure that vomitus can freely drain due to danger of suffocation. Give water repeatedly. Artificial induction of vomiting should be restricted to first aid staff. Give nothing by mouth in cases of unconsciousness or convulsion. Seek medical advice.

#### SECTION 5 FIRE-FIGHTING MEASURES

##### Suitable extinguishing media

Water spray, Carbon dioxide (CO<sub>2</sub>), Foam, Dry powder

##### Extinguishing media which must not be used for safety reasons



## **CSFC TAIWAN ENTERPRISE CORPORATION**

Head Office: 3F, No. 14, Cuizhu North Road, Yangzhong, Jiangsu, China  
 Tel: +86-511-88365501 Fax: +86-511-88350971 Post code: 212200  
 Homepage: [www.csfchem.com](http://www.csfchem.com)

High volume water jet

### **Exposure hazards**

Contaminated water from fire hoses or sprinklers, etc., must be prevented from draining into watercourses, sewers, or the ground water. Sufficient measures must be taken to retain water used for extinguishing. Contaminated water and soil must be disposed of in conformity with local regulations.

### **Special protective equipment for firefighters**

Wear full protective clothing. Wear self-contained breathing apparatus.

### **Combustion products**

Oxides of carbon; Oxides of nitrogen (NO<sub>x</sub>); Toxic gases/vapours

## **SECTION 6 ACCIDENTAL RELEASE MEASURES**

### **Personal precautions**

Do not breathe vapours/dust. Remove all sources of ignition. Avoid contact with skin, eyes and clothing.

### **Environmental precautions**

Do not flush into surface water, sanitary sewer or ground water system.

### **Methods for cleaning up**

Use mechanical handling equipment. Collect the spilled product into suitable containers, which must be tightly sealed and properly labelled. Avoid dust formation

## **SECTION 7 HANDLING AND STORAGE**

### **Handling**

Avoid dust formation and ignition sources. Ensure good local exhaust ventilation. Do not eat, drink or smoke at the workplace.

### **Storage**

Keep away from food and drink. Store in the original container securely closed.

Caution, keep this product well sealed. Keep in cool, dry place. Close containers immediately after use. Danger!

Explosion risk. Risk of explosion if an air-dust mixture forms. Avoid creating dusty conditions. Empty only into earthed containers. If container is larger than 2000 liter in volume, or when flammable solvents are present inert container or use a system otherwise designed to prevent or contain an explosion -- seek expert advice.

## **SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Exposure limit(s)**

#### ***Exposure limit (8 hour time weighted average)***

0.5 mg/m<sup>3</sup>

Effects on lymph nodes in animal studies

### **Technical measures/Precautions**

Exposure limit(s) should be monitored using suitable analytical equipments.

### **Respiratory protection**



## CSFC TAIWAN ENTERPRISE CORPORATION

ules Office: 3F, No. 14, Cuizhu North Road, Yangzhong, Jiangsu, China  
Tel: +86-511-88365501 Fax: +86-511-88350971 Post code:212200  
Homepage: [www.csfchem.com](http://www.csfchem.com)

Effective dust mask.

### Hand protection

Protective gloves

### Eye protection

Suitable goggles or face protection

### Skin and body protection

Working clothes , Closed footwear

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

|   |                        |                  |
|---|------------------------|------------------|
| <b>Form</b>                             | powder                 |                  |
| <b>Colour</b>                           | white to off-white     |                  |
| <b>Melting/freezing temperature</b>     | 224-229 °C             |                  |
| <b>Boiling point/range</b>              | not applicable         |                  |
| <b>Relative density 25 °C</b>           | 1.11 g/cm <sup>3</sup> |                  |
| <b>Flash point</b>                      | > 180 °C               | <b>DIN 51758</b> |
| <b>Ignition Temperature</b>             | 380 °C                 | <b>BAM</b>       |
| <b>Oxidising properties</b>             | not tested             |                  |
| <b>Self-ignition temperature</b>        | not tested             |                  |
| <b>Water solubility 20 °C</b>           | < 1 mg/l               |                  |
| <b>Vapour pressure 25 °C</b>            | Ca 1E-10 Pa            |                  |
| <b>Partition coefficient; Log Pow</b>   | 2.44                   |                  |
| <i>20 - 25°C</i>                        |                        |                  |
| <b>pH-value 1 % suspension in water</b> | 6.0                    |                  |
| <i>20 - 25°C</i>                        |                        |                  |
| <b>Explosive properties</b>             | not tested             |                  |

## SECTION 10 STABILITY AND REACTIVITY

|   |  |
|---|--|
| <b>Decomposition temperature</b>        | > 380 °C   |
| <b>Conditions to avoid</b>              | Static discharges.   |
| <b>Materials to avoid</b>               | Strong acids, strong bases and strong oxidising agents.                      |
| <b>Hazardous decomposition products</b> | Oxides of carbon, Oxides of nitrogen (NO <sub>x</sub> ), Toxic gases/vapours |

## SECTION 11 TOXICOLOGICAL INFORMATION

|                                       |                       |
|---------------------------------------|-----------------------|
| <b>Acute oral toxicity</b>            | LD50 > 2000 mg/kg     |
| <i>Rat</i>                            |                       |
| <b>Acute dermal toxicity</b>          | LD50 > 3000 mg/kg     |
| <i>Rat 14 d</i>                       |                       |
| <b>Acute eye irritation/corrosion</b> | not irritant OECD 405 |



## CSFC TAIWAN ENTERPRISE CORPORATION

Sales Office: 3F, No. 14, Cuizhu North Road, Yangzhong, Jiangsu, China  
 Tel: +86-511-88365501 Fax: +86-511-88350971 Post code:212200  
 Homepage: [www.csfchem.com](http://www.csfchem.com)

*Rabbit*

**Acute dermal** not irritant OECD 404

**irritation/corrosion**

*Rabbit*

**Acute skin sensitisation** not sensitising OECD 406 / EEC B 6

*Guinea pig*

**Further information**

Following prolonged exposure, lymph node swelling (inflammation) was observed in rats.

### SECTION 12 ECOLOGICAL INFORMATION

**Acute toxicity to fish** LC50 > 100 mg/l OECD 203 /EEC C 1

*Zebra fish (Brachydanio rerio) 96 h*

**Tested with supersaturated solution (100 mg active substance / L prepared without any additive)**

**Acute toxicity to daphnia** EC50 > 100 mg/l OECD 202 /EEC C 2

*Daphnia magna 24 h 20 °C*

**Tested with supersaturated solution (100 mg active substance / L prepared without any additive)**

**Acute toxicity to bacteria** IC50 > 100 mg/l OECD 209

*Sewage sludge 3 h*

**Acute toxicity to algae** EC50 > 100 mg/l OECD 201 /EEC C 3

*Scenedesmus sp. 72 h*

**Biodegradability** **Not biodegradable** OECD 301 B

**Ecotoxic effects**

Do not discharge product uncontrolled into the environment

### SECTION 13 DISPOSAL CONSIDERATIONS

**Waste from residues / unused products**

Residual chemical should be disposed by incineration or by other modes of disposal in compliance with local legislation.

**Contaminated packaging**

Contaminated packaging material should be treated equivalent to residual chemical. Clean packaging material should be subjected to waste management schemes (recovery recycling, reuse) according to local legislation

### SECTION 14 TRANSPORT INFORMATION

**Flash point** > 180 °C

**ADR/RID** Class: Free



## **CSFC TAIWAN ENTERPRISE CORPORATION**

ules Office: 3F, No. 14, Cuizhu North Road, Yangzhong, Jiangsu, China  
Tel: +86-511-88365501 Fax: +86-511-88350971 Post code:212200  
Homepage: [www.csfchem.com](http://www.csfchem.com)

**IMO** Class: Free

**ICAO** Class: Free

### **SECTION 15 REGULATORY INFORMATION**

**Classification** Classification not required

### **SECTION 16 OTHER INFORMATION**

**R-phrases from chapter 2** -

THIS INFORMATION IS FURNISHED WITHOUT WARRANTY, EXPRESSED OR IMPLIED, EXCEPT THAT IT IS ACCURATE TO THE BEST KNOWLEDGE OF IT. THE DATA ON THIS SHEET RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED HEREIN, ASSUMES NO LEGAL RESPONSIBILITY FOR USE OR RELIANCE UPON THIS DATA. This MSDS cancels and replaces any preceding release.