



## CSFC TAIWAN ENTERPRISE CORPORATION

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### MATERIAL SAFETY DATA SHEET CSFC 770

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PAGE: 1-5

#### SECTION 1 IDENTIFICATION OF THE SUBSTANCE

**Trade name:** CSFC 770

**Chemical identification:** bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate

**CAS Number:** 052829-07-9

**Use:** UV Stabilizer

#### SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical description: Substances presenting a health or environmental hazard

**Substances presenting a health or environmental hazard**

EC-Number	CAS Number	Chemical Name	Content	Symbol(s)	R-Phrase(s)
258-207-9	052829-07-9	bis(2,2,6,6-tetra methyl-4-piperidyl) sebacate	100 %	Xi - N	R36 - R51/53

#### SECTION 3 HAZARDS IDENTIFICATION

**Classification of the substance or mixture**

According to Regulation (EC) No 1272/2008 [CLP]

Serious eye damage/eye irritation

Acute aquatic toxicity

Chronic aquatic toxicity

#### 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.



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### 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**

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**

Irritant. Dangerous for the environment. Handle and open container with care. 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.

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)***

1 mg/m<sup>3</sup>

Pulmonary edema after inhalation in animal studies



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### Technical measures/Precautions

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

#### Respiratory protection

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>	granules	
<b>Form</b>	crystalline	
<b>Colour</b>	white to off-white	
<b>Odour</b>	odourless	
<b>Melting/freezing temperature</b>	81 - 85 °C	
<b>Boiling point/range</b>	not applicable	
<b>Relative density 20 °C</b>	1.05 g/cm <sup>3</sup>	
<b>Flash point</b>	> 150 °C	DIN 51584
<b>Ignition Temperature</b>	330 °C	BAM
<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 20 °C</b>	1.3E-8 Pa	
<b>Partition coefficient; Log Pow 20 - 25°C</b>	0.35	
<b>pH-value 1 % suspension in water 20 - 25°C</b>	9.67	
<b>Explosive properties</b>	not tested	

## SECTION 10 STABILITY AND REACTIVITY

<b>Decomposition temperature</b>	> 350 °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	OECD 423 /
<i>Rat</i>		EEC B1



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<b>Acute dermal toxicity</b>	> 2000 mg/kg	OECD 402 / EEC B 3
<b>Acute Inhalation Toxicity</b>	not tested	
<b>Acute eye irritation/corrosion</b> <i>Rabbit</i>	irritant	OECD 405 / EEC B 5
<b>Acute dermal irritation/corrosion</b> <i>Rabbit</i>	not irritant	OECD 404 / EEC B 4
<b>Acute skin sensitisation</b> <i>Guinea pig</i>	not sensitising	OECD 406 / EEC B 6

### SECTION 12 ECOLOGICAL INFORMATION

<b>Acute toxicity to fish</b> <i>Bluegill 96 h</i>	LC50 13 mg/l
<b>Acute toxicity to daphnia</b> <i>Daphnia magna 24 h</i>	EC50 17 mg/l
<b>Acute toxicity to bacteria</b> <i>Sewage sludge 3 h</i>	IC50 > 100 mg/l
<b>Acute toxicity to algae</b> <i>Scenedesmus sp. 72 h</i>	EC50 1.9mg/l
<b>Biodegradability</b> 28 d	29% Partially but not readily biodegradable
<b>Biodegradability</b> 29 d	10 - 24 % Not readily biodegradable

#### Ecotoxic effects

Do not discharge product uncontrolled into the environment.

#### Information on classification

This preparation is classified relating to its environmental hazards applying the conventional method described in EU Directive 1999/45/EC, Annex III.

### 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

<b>Flash point</b>	>150 °C
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<b>ADR/RID</b>	Class: 9 UN No.: 3077 Packaging group: III Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. Additional Information: (BIS-(2,2,6,6-TETRAMETHYL-4-PIPERIDYL) SEBACATE)
<b>IMO</b>	Class: 9 UN No.: 3077 Packaging group: III Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. Additional Information: (BIS-(TETRAMETHYL-4-PIPERIDYL) SEBACATE)
<b>ICAO</b>	Class: 9 UN No.: 3077 Packaging group: III Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. Additional Information: (BIS-(2,2,6,6-TETRAMETHYL-4-PIPERIDYL) SEBACATE)

### **SECTION 15 REGULATORY INFORMATION**

<b>Classification</b>	Self-classification
<b>Symbol(s)</b>	Xi Irritant N Dangerous for the environment
<b>R-Phrase(s)</b>	R36 Irritating to eyes. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
<b>S-Phrase(s)</b>	S22 Do not breathe dust. S25 Avoid contact with eyes. S60 This material and/or its container must be disposed of as hazardous waste.
<b>Contains</b>	bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate

### **SECTION 16 OTHER INFORMATION**

R-phrases from chapter 2	R36 Irritating to eyes. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
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