



CSFC TAIWAN ENTERPRISE CORPORATION

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MATERIAL SAFETY DATA SHEET CSFC 127

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SECTION 1 IDENTIFICATION OF THE SUBSTANCE

Trade name: CSFC 127
Product: 1,1'-Biphenyl-4,4'-bis[2-(methoxyphenyl)ethenyl]
CAS number: 40470-68-6

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical description: Substances presenting a health or environmental hazard

EC-Number	CAS Number	Chemical Name	Content	Symbol(s)	R-Phrase(s)
	40470-68-6	1,1'-Biphenyl-4,4'-bis[2-(methoxyphenyl)ethenyl]			

Chemical characterisation: Optical brightener

SECTION 3 HAZARDS IDENTIFICATION

Classified as hazardous according the EU directives.

Xi Irritant

N Dangerous for the environment

May cause sensitization by skin contact.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

SECTION 4 FIRST AID MEASURES

Contact with skin: Wipe with absorbent paper or textile towels. Wash off with soap and plenty of water. Do not use organic solvents. In case of dermatitis, seek medical attention.

Contact with eyes: Rinse immediately with plenty of water for at least 15 minutes. In case of eye irritation, 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.

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.

SECTION 5 FIRE-FIGHTING MEASURES

Suitable extinguishing media

Water spray, Carbon dioxide (CO₂), Foam, Dry powder.

Extinguishing media which must not be used for safety reasons



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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_x); 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

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect the spilled product into suitable containers, which must be tightly sealed and properly labelled

SECTION 7 HANDLING AND STORAGE

Handling precautions: Dangerous for the environment. Handle and open container with care. Avoid vapour formation and ignition sources. Ensure good local exhaust ventilation. Do not eat, drink or smoke at the workplace

Storage conditions: Keep away from food and drink. Store in the original container securely closed. This product can form an ignitable vapour/air mixture. Take precautionary measures against static discharges, e.g. by using proper earthing techniques. Caution, keep this product well sealed. Keep in cool, dry place. Close containers immediately after use.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Respiratory protection: In case of insufficient ventilation wear suitable respiratory equipment.

Protection for hands: Protective gloves.

Eye protection: Suitable goggles or face protection

Protection for skin: Working clothes, Closed footwear

Exposure limit(s) (ACGIH): (8 hour time weighted average)

1 mg/m³

Skin sensitising in animal study



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SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Form	Green yellowish crystalline powder
Colour	Green yellowish
Melting/freezing temperature	216-220 °C
Boiling point/range	> 350 °C
Relative density_{20 °C}	0.99 g/cm ³
Flash point	117 °C
Flammability	not tested
Ignition Temperature	380 °C
Oxidising properties	not tested
Self-ignition temperature	not tested
Water solubility_{20 °C}	< 0.01 %
Solubility	not tested
Vapour pressure_{20 °C}	1.0E-4 Pa
Partition coefficient; Log Pow_{20 - 25°C}	2.37
pH-value 1 % suspension in water_{20 - 25°C}	8.4
Dynamic Viscosity_{20 °C}	400 mPa.s
Explosive properties	not tested
Evaporation rate	not tested
Vapour density	not tested

SECTION 10 STABILITY AND REACTIVITY

Decomposition temperature	325 °C
Conditions to avoid	No special conditions.
Materials to avoid	Strong acids, strong bases and strong oxidising agents.
Hazardous decomposition products	Oxides of carbon, Oxides of nitrogen (NO _x), Toxic gases/vapours

SECTION 11 TOXICOLOGICAL INFORMATION

Acute oral toxicity	LD ₅₀ > 2000 mg/kg
<i>Rat</i>	
Acute dermal toxicity	L D ₅₀ > 2000 mg/kg
<i>Rat</i>	
Acute Inhalation Toxicity	not tested
Acute eye irritation/corrosion	not irritant



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Rabbit

Acute dermal irritation/corrosion not irritant

Rabbit

Acute skin sensitisation sensitising

Guinea pig

SECTION 12 ECOLOGICAL INFORMATION

Acute toxicity to fish LC50 0.97 mg/l

Bluegill 96 h

Acute toxicity to fish LC50 7.9 mg/l

Rainbow trout 96 h

Acute toxicity to daphnia EC50 20 mg/l

Daphnia magna 24 h

Acute toxicity to bacteria IC50 > 100 mg/l

Sewage sludge 3 h

Acute toxicity to algae not tested

Biodegradability Partially but not readily Biodegradable

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 117 °C

ADR/RID

Class: 9

UN No.: 3082

Packaging group: III

Proper shipping name: ENVIRONMENTALLY HAZARDOUS
 SUBSTANCE,
 LIQUID, N.O.S.

Additional Information: (BIS-(TETRAMETHYL-4-PIPERIDYL)
 SEBACATE)

IMO

Class: 9

UN No.: 3082



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ICAO

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SEBACATE)

SECTION 15 REGULATORY INFORMATION

Classification	Self-classification
Symbol(s)	Xi Irritant
R-Phrase(s)	N Dangerous for the environment R43 May cause sensitization by skin contact. R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-Phrase(s)	S24 Avoid contact with skin. S37 Wear suitable gloves. S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.
Contains	bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

SECTION 16 OTHER INFORMATION

Essential changes	New layout
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