

MATERIAL SAFETY DATA SHEET CSFC 327

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SECTION 1 IDENTIFICATION OF THE SUBSTANCE

Product name	CSFC 327
Chemical identification	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol
CAS Number	003864-99-1
Use	Stabilizer

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

CAS Number	Product Name	Content	Symbol(s)	R-Phrase(s)
003864-99-1	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-	100%	Xn	R48/22-R52/53
	yl)phenol			

SECTION 3 HAZARDS IDENTIFICATION

Classified as hazardous according the EU directives.

Xn Harmful

Harmful: danger of serious damage to health by prolonged exposure if swallowed.

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

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 (CO2), 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, orthe 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 (NOx); 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

Harmful. 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)

Value 2.5 mg/m3 Justification to exposure limit Effects on liver and kidney in animal studies **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

SECTION S PRISICAL AND CR		20
Form	powder	
Colour	slightly yellowe	
Odour	odourless	
Melting/freezing temperature	154 - 157 °C	
Boiling point/range	not applicable	
Relative density 20 °C	1.26 g/cm3	
Flash point	234 °C	DIN 51584
Ignition Temperature	430 °C	BAM
Oxidising properties	not tested	
Self-ignition temperature	not tested	
Water solubility 20 °C	< 1 mg/l	
Vapour pressure 25 °C	<i>1.1</i> E-6 Pa	
Partition coefficient; Log Pow	> 6	
20 - 25°C		
pH-value 1 % suspension in water	5.8	
20 - 25°C		
Explosive properties	not explosive	
SECTION 10 STABILITY AND RE	ACTIVITY	
Decomposition temperature	> 350 °C	
Conditions to avoid	Static discharges.	
Materials to avoid	Strong acids, strong ba	ases and
	strong oxidising agents	S.
Hazardous decomposition products	Oxides of carbon, Oxid	des of
	nitrogen (NOx), Toxic	
	gases/vapours	
SECTION 11 TOXICOLOGICAL I		
Acute oral toxicity	LD50 > 2000 mg/kg	

Acute oral toxicity	LD50 > 2000 mg/kg
Rat	LD50 > 7750 mg/kg
Acute Inhalation Toxicity	LC50 > 750 mg/m3
Rat	no classification
Acute eye irritation/corrosion	not irritant
Rabbit	



Acute dermal	not irritant
irritation/corrosion	
Rabbit	
Acute skin sensitisation	not sensitising
Guinea pig	
Further information	
Following prolonged exposure, lymph no	ode swelling (inflamation) was observed in rats.

SECTION 12 ECOLOGICAL INFORMATION

Acute toxicity to fish	LC50 > 100 mg/l
Zebra fish (Brachydanio rerio) 96 h	
Acute toxicity to daphnia	EC50 16 mg/l
Daphnia magna 24 h 20 °C	
Acute toxicity to bacteria	IC50 > 100 mg/l
Sewage sludge 3 h	
Acute toxicity to algae	EC50 56 mg/l
Scenedesmus sp. 72 h	
Biodegradability	Not 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

Flash point	234 °C
ADR/RID	Class: Free
IMO	Class: Free
ICAO	Class: Free
SECTION 15	REGULATORY INFORMATION



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EC-Number	223-383-8
Contains	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol
Classification	Self-classification
Symbol(s)	Xn Harmful
R-Phrase(s)	R48/22 Harmful: danger of serious damage to health
	by prolonged exposure if swallowed.
	R52/53 Harmful to aquatic organisms, may cause
	long-term adverse effects in the aquatic environment
S-Phrase(s)	S22 Do not breathe dust.
	S36 Wear suitable protective clothing
	S61 Avoid release to the environment. Refer to
	special instructions/Safety data sheets.
SECTION 16 OTHER IN	FORMATION
R-phrases from chapter 2	R48/22 Harmful: danger of serious damage to health
	by prolonged exposure if swallowed.
	R52/53 Harmful to aquatic organisms, may cause
	long-term adverse effects in the aquatic environment
Essential changes N	lew layout

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