

# MATERIAL SAFETY DATA SHEET CSFC 360

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

## SECTION 1 IDENTIFICATION OF THE SUBSTANCE

Product name	CSFC 360
Chemical identification	2,2'-Methylenebis(6-(2H-benzotriazol-2-yl)-4-
	(1,1,3,3-tetramethylbutyl)phenol)
CAS Number	103597-45-1

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

CAS Number	Product Name	Content	R-Phrase(s)
103597-45-1	2,2'-Methylenebis(6-(2H-benzotriazol-2-yl)-4-	100%	R53
	(1,1,3,3-tetramethylbutyl)phenol)		

### SECTION 3 HAZARDS IDENTIFICATION

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



Homepage: www.csfchem.com

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 10 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



Homepage: www.csfchem.com

### Eye protection

Suitable goggles or face protection

#### Skin and body protection

Working clothes , Closed footwear

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Form	powder	
Colour	slightly yellow	
Odour	odourless	
Melting/freezing temperature	>195 °C	
Boiling point/range	not applicable	
Relative density 20 °C	1.2 g/cm3	
Flash point		
Ignition Temperature	400 °C	BAM
Oxidising properties	not tested	
Self-ignition temperature	no self-ignition	
Water solubility 20 °C	< 0.007 mg/l	
Vapour pressure 25 °C	<0.01 Pa	
Partition coefficient; Log Pow	12.7	
20 - 25°C		
pH-value 1 % suspension in water		
20 - 25°C		
Explosive properties	not tested	
SECTION 10 STABILITY AND RE	EACTIVITY	
Decomposition temperature	> 360 °C	
Conditions to avoid	Static discharges.	
Materials to avoid	Strong acids, strong ba	ises and
	strong oxidising agents	5.
Hazardous decomposition products	Oxides of carbon, Oxid	les of
	nitrogen (NOx), Toxic	

## SECTION 11 TOXICOLOGICAL INFORMATION

Acute oral toxicity	LD50 > 2000 mg/kg
Rat	
Acute eye irritation/corrosion	not irritant
Rabbit	
Acute dermal	not irritant
irritation/corrosion	
Rabbit	
Acute skin sensitisation	not sensitising

gases/vapours



Homepage: www.csfchem.com

#### Guinea pig

#### **Further information**

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

## SECTION 12 ECOLOGICAL INFORMATION

Acute toxicity to fish	LC50 > 12.7 mg/l
Zebra fish (Brachydanio rerio) 96 h	
Acute toxicity to daphnia	EC50 >50.2 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 >2.0 mg/l
Scenedesmus sp. 72 h	
Biodegradability	<1.5
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	not tested
ADR/RID	Class: Free
IMO	Class: Free
ICAO	Class: Free
SECTION 15	REGULATORY INFORMATION
EC-Number	4.0-800-1
Contains	2,2'-Methylenebis(6-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol)
Classification	Classification according to EU, Annex 1; EC Label
R-Phrase(s)	R53 May cause long-term adverse effects in the
	aquatic environment
S-Phrase(s)	S61 Avoid release to the environment. Refer to
	special instructions/Safety data sheets.
SECTION 16	OTHER INFORMATION
Essential shares	na Navy Javané

Essential changes New layout



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.