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MATERIAL SAFETY DATA SHEET **CSFC 326**

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SECTION 1 IDENTIFICATION OF THE SUBSTANCE

Product name **CSFC 326**

Chemical identification 2-(5-chloro(2H)-benzotriazole-2-yl)-4-(methyl)-6-(tert-butyl)phenol

CAS Number 003896-11-5

SECTION 2	COMPOSITION/INFORMATION ON INGREDIENTS	

CAS Number Product Name Content R-Phrase(s)

3896-11-5 2-(5-chloro(2H)-benzotriazole-2-yl)-4-(methyl)-6-100 % **R53**

(tertbutyl)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

Contaminated water from fire hoses or sprinklers, etc., must be prevented from draining into

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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

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 6.0 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



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Suitable goggles or face protection

Skin and body protection

Working clothes, Closed footwear

PHYSICAL AND CHEMICAL PROPERTIES SECTION 9

Form powder

Colour slightly yellowe Odour odourless 138 - 141 °C Melting/freezing temperature **Boiling point/range** not applicable Relative density 20 °C 1.3 g/cm3

238 °C Flash point **DIN 51584 Ignition Temperature** 420 °C **DIN 51794**

5.86

Oxidising properties not tested **Self-ignition temperature** not tested Water solubility 20 °C < 1 mg/lVapour pressure 25 °C 7.5 E-7 Pa

Partition coefficient; Log Pow > 6

20 - 25°C

pH-value 1 % suspension in water

20 - 25°C

Explosive properties not tested

SECTION 10 STABILITY AND REACTIVITY

Decomposition temperature > 350 °C

Conditions to avoid Static discharges.

Materials to avoid Strong acids, strong bases and

strong oxidising agents.

Hazardous decomposition products Oxides of carbon, Oxides of

nitrogen (NOx), Toxic

gases/vapours

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

Guinea pig

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Further information

Following prolonged exposure, lymph node 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 > 100 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 > 100 mg/l

Scenedesmus sp. 72 h

Biodegradability Not 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	238 °C	

ADR/RID Class: Free **IMO** Class: Free **ICAO** Class: Free

REGULATORY INFORMATION SECTION 15

EC-Number

Contains 2-(5-chloro(2H)-benzotriazole-2-yl)-4-(methyl)-6-(tert-butyl)phenol

Classification Self-classification

R-Phrase(s) R53 May cause long-term adverse effects in the

aquatic environment

S61 Avoid release to the environment. Refer to S-Phrase(s)

special instructions/Safety data sheets.

SECTION 16 OTHER INFORMATION



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Essential changes New layout

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