



Material Safety Data Sheet

CHEMOPT OB

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product name : 2,5-thiophenediylbis(5-tert-butyl-1,3-benzoxazole)
CAS number : 007128-64-5
Product code : Chemopt OB
Company name : UV Chem-Keys Co., Ltd
RM9-G, F/9, First Trade Tower, 985# Dongfang RD, Shanghai, China
Zip Code: 200122
Tel: 86 21 58785816
Fax: 86 21 58786585

2. COMPOSITION / INFORMATION ON INGREDIENTS

CAS number : 007128-64-5
Product Name : 2,5-thiophenediylbis(5-tert-butyl-1,3-benzoxazole)
Content : 100 %
R-Phrase(s) : R53

3. HAZARDS IDENTIFICATION

May cause long-term adverse effects in the aquatic environment..

4. FIRST AID MEASURES (SYMPTOMS)

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 of 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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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, 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.

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.

7. HANDLING AND STORAGE

- Handling** : 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.

Protect from heat. 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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Exposure Limit** : CIEL-TWA Ciba internal exposure limit (8 hour time weighted average)
Value 10 mg/m³
Justification to exposure limit Exposure limit for inhalable dust.
- Technical measures/Precautions** : Exposure limit(s) should be monitored using suitable analytical equipments.
- Respiratory protection** : Effective dust mask
- Hand protection** : Protective gloves
- Skin/Body Protection** : Working clothes , Closed footwear



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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: powder	
Colour	: yellow	
Odor	: odourless	
Melting point/range(°C)	: 201 - 205 °C	
Density 20 °C	: 1.26 g/cm ³	
Flash point	: > 350 °C	DIN 51584
Ignition Temperature	: 490 °C	BAM
Oxidising properties	: not tested	
Water solubility 20 °C	: < 1 mg/	
Vapour pressure 20 °C	: 2.6E-8 Pa	
Partition coefficient;	: > 6	
Log Pow 20 - 25°C		
pH-value 1 % suspension	: 6.2	
in water 20 - 25°C		
Explosive properties	: not tested	

10. STABILITY AND REACTIVITY

Decomposition Temperature	: > 350 °C
Condition To Avoid	: Static discharges.
Materials To Avoid	: Strong acids, strong bases and strong oxidising agents.
Hazardous Decomposition	: Oxides of carbon, Oxides of nitrogen (NO _x), Oxides of sulfur, Toxic
Product	gases/vapours

11. TOXICOLOGICAL INFORMATION

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



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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

Acute toxicity to bacteria : IC50 > 100 mg/l

Sewage sludge 3 h

Acute toxicity to algae : EC50 not tested

Scenedesmus sp.

Biodegradability : Not biodegradable

Ecotoxic effects Do not discharge product unmonitored into the environment.

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.

14. Transport information

Flash point : > 350 °C

ADR/RID : Class: Free

IMO : Not applicable

Proper Shipping Name : Not applicable

15. REGULATORY INFORMATION

EC-Number : 230-426-4

Contains : 2,5-thiophenediylbis(5-tert-butyl-1,3-benzoxazole)

Classification : Self-classification

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.

16. Other information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. UV chem.-keys shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.



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