

China Petrochemical Development Corporation


Safety Data Sheet

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1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

Product Name : DOPO (3,4,5,6-Dibenzo-1,2-oxaphosphan-2-oxid)
Other Name : —
Relevant identified uses of the substance or mixture and uses advised against : —
Details of the Supplier : Name : China Petrochemical Development Corporation (CPDC) Research and Development Department Address : No. 1, Jingjian Rd., Dashe Dist., Kaohsiung City 815, Taiwan (R.O.C.) Phone Number : 886-7-3918118 Fax Number : 886-7-3918100
Emergency Phone Number : Phone Number : 886-7-6117136 #8187 Fax Number : 886-7-6117120

2. HAZARDS IDENTIFICATION

Classification : May cause sensitization by skin contact (category:1)

Label elements : Signal word : Warning Hazard statement(s) : Irritating to skin May cause sensitization by skin contact Precautionary statement(s) : Wear suitable clothes Use adequate ventilation to keep air fresh.
Other hazards : —

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance :

Name : DOPO (3,4,5,6-Dibenzo-1,2-oxaphosphan-2-oxid)
Synonyms : 9,10-Dihydro-9-oxa-10-phosphaphenanthrene 10-oxide 6H-dibenz<c,e><1,2>oxaphosphorin 6-oxide
CAS No. : 35948-25-5
Hazardous Components (Percentage Composition) : 100%

4. FIRST AID MEASURES

First Aid Measures of Different Exposure Routes : Inhalation: If inhaled, move victim to fresh air and immediately seek medical attention. Skin: Immediately wash with soap and water for at least 15 minutes. If irritation persists, seek medical attention. Remove contaminated clothing immediately. Eye: Remove contact lenses at once. Immediately flush eyes well with copious quantities of water or normal saline for at least 20-30 minutes. If irritation persists, seek medical attention. Ingestion: Seek immediate medical attention.
The most important symptoms and hazardous effects : Cause sensitization by skin contact.
The protection of first-aiders : Please put yourself and the patient in a safe place first, and ask the patient to do a systematic cleaning.

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Notes to physicians : No.

5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray 、 Foam 、 Powder 、 CO₂

When firefighting possible bitter experience special harm : No.

Special firefighting procedures : No.

Personal protection : General fire protection equipment.

6. ACCIDENTAL RELEASE MEASURES

Safeguards (Personnel) : Wear suitable protective clothing, gloves and eye/face protection.

Environmental precautions : Keep from heat source & fire, Puts aside all ignition

Spill procedure : Contain spilled material. Take up and place in secure closed containers. All waste materials should be packaged, labelled, and transported in accordance with all national and local requirements.

7. Safe Handling and Storage Measures

Handling procedures :

Prevent contact with skin and eye. Use good industrial hygiene practices. Provide adequate ventilation. Use aggressive venting and explosion relief provisions in accord with accepted engineering practices. Keep area well ventilated.

Storage procedures :

Store in a dry place away from moisture, excessive heat and sources of ignition. Keep area clean at all times.

8. Exposure Controls Measures

Engineering controls : No.

Control parameters

Permissible Exposure Level TWA of 8 hour	Permissible Exposure Level STEL	Permissible Exposure Level Ceiling	Biological Exposure Indices BEIs
—	—	—	—

Personal protective equipment :

Respiratory protection : Dust mask..

Hand protection : Cotton gloves.

Eye protection : Splash safety goggle.

Skin and body protection : Class C, safety shoes.

Hygiene measures : No.

9. Physical and Chemical Properties

Appearance (physical state, colour, etc) : White powder or white flake	Odor : —
Odor threshold : No.	Melting point : 118 °C
pH value : —	Boiling point or boiling range : 400 °C
Flammability (solid, gas) : No.	Flash point : 206 °C
Decomposition temperature : —	Explosion range : —
Auto-ignition temperature : —	Vapor density : —
Vapor pressure : —	Solubility : Insoluable
Density : 1.378 (25°C)	

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Octanol-Water partition coefficient (logKow) : —	Evaporation rate : —
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10. Chemical Stability and Reactivity Information

Chemical Stability : Stable under proper conditions
Possibility of Hazardous Reactions : —
Conditions to Avoid : Avoid getting product wet during storage.
Incompatible Materials : —
Hazardous Decomposition Products : —

11. TOXICOLOGICAL INFORMATION

Exposure Routes : Inhalation 、 Eye 、 Skin 、 Ingestion
Symptom : Respiratory tract irritation 、 Poisoning 、 Can' t breath 、 Lung, liver and gastrointestinal cavity and myocardial bleeding 、 Eye gangrene 、 ulcer 、 Skin hyperkeratosis and acanthosis 。
Acute Toxicity : Inhalation : May cause respiratory irritation Skin : May make some people' s skin sensitive Eye : The report pointed out that direct contact may cause severe irritation and eye gangrene. Ingestion : According to the reports its severe toxicity may cause inability to breathe, bleeding in the lungs, liver, gastrointestinal cavities and myocardium, and the weakening of the central nervous system may cause death LD50(Animal test 、 absorption 3500mg/kg (rat , oral) LC50(Animal test 、 absorption 4200mg/kg (rat , inhalation)
Slow toxicity or Long term toxicity : No data available

12. ECOLOGICAL INFORMATION

Ecological Toxicity : Disposal of this product will cause water pollution, air pollution and soil pollution.
Durability and degradability : The aquatic toxicity of this product has not been determined. Therefore, avoid discharge to all bodies of water and ground water ground water. Half time (air) : — Half time (water) : — Half time (groundwater) : — Half time (Soil) : —
The biology stores up the nature : The bioaccumulation of organisms in the water is expected to be moderate.
In soil fluidity : Expect not to flow in the soil.
Other Adverse Effects : —

13. DISPOSAL CONSIDERATIONS

Handling : Dispose of in accordance with local waste disposal laws.

14. TRANSPORT INFORMATION

UN Number : —
UN Proper Shipping Name : —
Transport hazard class : —
Packaging Group : —
Special precautions for users and transporters : —

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15. REGULATORY INFORMATION

Classification and labeling : Waste Disposal Act 、 Air Pollution 、 Occupational Safety and Health Act 、 Water Pollution Control Act.

16. OTHER INFORMATION

Reference	<p>1. While the information and recommendations in this publication are to the best of our knowledge, information and belief accurate at the date of publication, nothing herein is to be construed as a warranty, express or otherwise. In all cases, it is the responsibility of the user to determine the applicability of such information and recommendations and the suitability of any product for its own particular purpose.</p> <p>2. The product may present hazards and should be used with caution. While certain hazards are described in this publication, no guarantee is made that these are the only hazards that exist.</p>	
Provided by	China Petrochemical Development Corporation (CPDC) Research and Development Department Address : No. 1, Jingjian Rd., Dashe Dist., Kaohsiung City 815, Taiwan (R.O.C.) Phone Number : 886-7-6117136 #8187 Fax Number : 886-7-6117120	
Provided person	Title : Specialist	Name (Signature) : Sunny MA
Date	110.10.12	
Remarks	The symbol "-" in the above data indicates that there is no relevant data currently found, and the symbol "/" indicates that this column is not applicable to the substance.	