

MATERIAL SAFETY DATA SHEET

Manufacturer/information service:

RAYFULL HOLDING CO., LTD.

ADD: 16 FLOOR 2A. DAZIRAN CITY LIGHT BLDG JINXIU RD WENZHOU
ZHEJIANG CHINA.

Tel: +86-577-88905587

Fax: +86-577-88905567

Email: info@rayfull.com

sales@rayfull.com

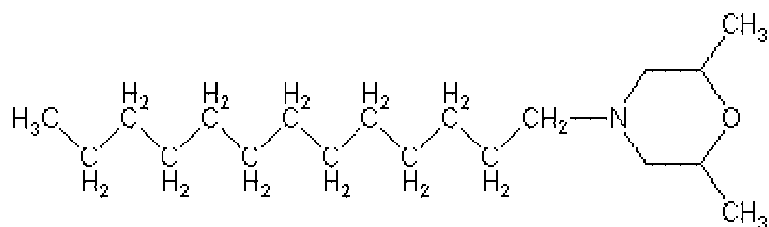
1. Chemical Product Identification

Product Name: Tridemorph

Molecular Formula: $C_{19}H_{39}NO$

Molecular Weight: 297.55

Structural Formula:



major component – 2,6-dimethyl-4-tridecylmorpholine

Chemical Name: 2, 6-dimethyl-4-tridecylmorpholine

Form: Liquid

Color: Light

Odor: Amine like.

CAS No.: 81412-43-3

2. Composition / Information On Ingredients

Composition	CAS No.	Content %
Tridemorph	81412-43-3	95.0
Other ingredients		5.0

3. Hazards Identification

Physical/chemical hazards: Not applicable.

Human health hazards: Harmful if swallowed. Irritating to skin.

4. First Aid Measures

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.

Loosen tight clothing such as a collar, tie, belt or waistband.

Skin Contact: In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Warm water must be used. Get medical attention.

5. Fire-Fighting Measures

Extinguishing Media: Not applicable.

Special fire-fighting procedures: Fire fighters should wear positive pressure self-contained breathing apparatus and full turnout gear

6. Accidental Release Measures

Personal precautions: Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist before handling this product.

Environmental Precautions and Clean-up Methods: Absorb with an inert material and put the spilled material in an appropriate waste disposal.

7. Handling And Storage

Handling: Do not ingest. Do not breathe gas/fumes/ vapor/spray. Avoid contact with skin. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area.

8. Exposure Controls/Personal Protection

Engineering measures: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Hygiene measures: Wash hands, forearms, and face thoroughly after handling compounds and before eating, smoking, using lavatory, and at the end of day.

Respiratory system: Wear appropriate respirator when ventilation is inadequate.

Skin and body: Lab coat. Hands: Gloves Eyes: Safety glasses.

9. Physical and Chemical Properties

Boiling Point: 134°C @66.7Pa

Solubility in water: 1.1mg/L(pH7;20°C)

Vapor Pressure: 12mPa@20°C

Relative density :0.86

Partition coefficient : KowlogP=4.20(pH7;22 °C)

PH: 6.5

Flash point : 142°C

10. Stability and Reactivity

Stability: The product is stable.

Materials to avoid: Slightly reactive to reactive with oxidizing agents.

11. Toxicological Information

Eye Irritation: no irritation

Skin Irritation: no irritation

Acute oral LD50(rat) ; 480mg/kg

Dermal LD50(rat): 4000mg/kg

Inhalation LC50(rat, 4h) : 4.5mg/L

12. Ecological And Ecotoxicological Information

96 hour LC50, Carp- 3.4mg/L

Oral LD50, mallard ->2000mg/Kg

Oral LD50, quail - 1388mg/kg

48 hour LC50 daphnia :1.3mg/L

24hour LD50 bee : >200µg/bee

13. Disposal Considerations

Dispose in accordance with applicable laws and regulations.

14. Transport Information

Not Applicable.

15. Regulatory Information

Not Applicable..

16. Other Information

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons on receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produce formulations containing this product, it is the recipients sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.