

MATERIAL SAFETY DATA SHEET

MSDS DATE: 07/01/05

FILE NO.: ALX-350-127

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Fumitremorgin C
SYNONYMS: FTC; SM-Q
PRODUCT CODES: ALX-350-127

MANUFACTURER: ALEXIS Corporation
ADDRESS: Industriestrasse 17
CH-4415 Lausen

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SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<u>Formula:</u>	<u>CAS #</u>	<u>EC #</u>	<u>Annex I Index #</u>
C ₂₂ H ₂₅ N ₃ O ₃	N/A	N/A	N/A

SECTION 3: HAZARDS IDENTIFICATION

ACUTE HEALTH EFFECTS: May be harmful by inhalation, ingestion, or skin absorption. Fungal toxin.

SECTION 4: FIRST AID MEASURES

EYES: Rinse immediately with plenty of water for 15 minutes. Seek immediate medical attention.

SKIN: Wash immediately with water for 15 minutes. Remove contaminated clothing. Seek medical attention.

INGESTION: Rinse mouth with water. Seek immediate medical attention and call poison control. Provide MSDS and label information if possible.

INHALATION: Take into fresh air. If breathing is difficult, administer oxygen.

SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Water spray, water foam, polymer foam, carbon dioxide, dry chemicals.

SPECIAL FIRE FIGHTING PROCEDURES: In case of fire, watch out for the formation of toxic smoke and gases. Wear self-contained respiration equipment. Prevent contact with skin and eyes.

UNUSUAL FIRE AND EXPLOSION HAZARDS: N/A

HAZARDOUS DECOMPOSITION PRODUCTS: N/A

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Evacuate area. Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves.

ACCIDENTAL RELEASE MEASURES: Avoid formation of dust, sweep up spill and place in sealed container and hold for disposal. Ventilate area and wash spill site after material pickup is complete.

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Avoid contact with skin and eyes; do not breathe dust. Avoid prolonged or repeated exposure. Immediately remove all contaminated clothing. Wash hands before breaks and after work. Avoid eating, drinking and storage of food in the work room. Store tightly sealed at +4°C.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Use only in chemical fume hood. Safety shower and eye bath.
VENTILATION: Government approved respirator.
EYE PROTECTION: Chemical safety goggles.
SKIN PROTECTION: Compatible gloves, protective coat or clothing.
SECTION 8 NOTES: Wash thoroughly after handling. Wash contaminated clothing before reuse.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Light brown powder.
ODOR: N/A
pH AS SUPPLIED: N/A
BOILING POINT: N/A
MELTING POINT: N/A
FREEZING POINT: N/A
VAPOR PRESSURE (mmHg): N/A
VAPOR DENSITY (AIR = 1): N/A
SPECIFIC GRAVITY (H₂O = 1): N/A
EVAPORATION RATE: N/A
BASIS (=1): N/A
SOLUBILITY: Soluble in DMSO, methanol or chloroform.
MOLECULAR WEIGHT: 379.5

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable. Avoid strong oxidizing agents.
HAZARDOUS DECOMPOSITION: Carbon monoxide, carbon dioxide, nitrogen oxides.
HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

RTECS # : N/A

TOXICOLOGICAL INFORMATION: May be harmful by inhalation, ingestion or skin absorption. Fungal toxin. Tremorgenic. Potent and specific inhibitor of the breast cancer resistance protein (BCRP; ABCG2). Reverses multidrug resistance mediated by BCRP and increases cytotoxicity of several anticancer agents *in vitro*. To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

LD50: Not available.

CHRONIC EXPOSURE: Not available.
CHRONIC EXPOSURE-CARCINOGEN: Not available.
CHRONIC EXPOSURE-MUTAGEN: Not available.
CHRONIC EXPOSURE-TERATOGEN: Not available.

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SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: N/A

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

SECTION 14: TRANSPORT INFORMATION

INTERNATIONAL TRANSPORT REGULATIONS:

LAND – ROAD/RAILWAY: ADR/RID: Not available.

SEA: IMDG: Not available.

AIR: IATA-DGR: Not available.

SPECIAL PROVISIONS FOR TRANSPORT: N/A

SECTION 15: REGULATORY INFORMATION

CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES:

SYMBOL OF DANGER: N/A

R-PHRASES: R20/21/22
Harmful by inhalation, in contact with skin and if swallowed.

S-PHRASES: S7, S35, S45
Keep container tightly closed. This material and its container must be disposed of in a safe way. In case of accident or if you feel unwell, seek medical advice immediately.

U.S. FEDERAL REGULATIONS: Not classified.

HCS CLASSIFICATION: Not classified.

WHMIS (CANADA): Not classified.

SECTION 16: OTHER INFORMATION

DISCLAIMER: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Alexis Corporation shall not be held liable for any damage resulting from handling or from contact with the above product.

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