



TimTec Corporation
Harmony Business Park, Bldg 301-A,
Newark DE 19711, USA
Phone: 1-302-292-8500 Fax: 1-302-292-8520
<http://www.timtec.net> e-mail info@timtec.net

MATERIAL SAFETY DATA SHEET

Section 1. Product Information

Product Name MELITTIN, Melittin-T
Natural, non-synthetic, polypeptide from European honey bee, Apis mellifera, venom; the principle hemolytic component

Amino Acid Sequence {GLY}{ILE}{GLY}{ALA}{VAL}{LEU}{LYS}{VAL}{LEU}{THR}{THR}{GLY}{LEU}{PRO}{ALA}{LEU}{ILE}{SER}{TRP}{ILE}{LYS}{ARG}{LYS}{ARG}{GLN}{GLN}-NH₂

IDNUMBER Melittin, CAS 20449-79-0

CAS Registry Number 20449-79-0

MDL Number MFCD00076868

Molecular Formula C₁₃₁H₂₂₉N₃₉O₃₁

Molecular Weight 2846.46

Section 2. Hazards Identification

EMERGENCY OVERVIEW

Harmful.

Poison. May be fatal if enters bloodstream. Sensitizer. Target organ(s): Central nervous system. Heart. Do not breathe dust. Do not use if skin is cut or scratched. Wash thoroughly after handling.

Section 3. First Aid Measures

ORAL EXPOSURE

If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately.

INHALATION EXPOSURE

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

DERMAL EXPOSURE

In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

EYE EXPOSURE

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Section 4. Accidental Release Measures

PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL

Evacuate area.

PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP

Spilled material should be carefully wiped up or moistened with water and removed. Ventilate area and wash spill site after material pickup is complete.

Section 5. Handling and Storage

HANDLING

User Exposure: Avoid inhalation. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure. Do not use if skin is cut or scratched. Wash thoroughly after handling.

STORAGE

Suitable: Keep tightly closed.

Store at -20°C

Section 6. Exposure Controls / PPE

ENGINEERING CONTROLS

Safety shower and eye bath. Use only in a chemical fume hood.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.

Hand: Compatible chemical-resistant gloves.

Eye: Chemical safety goggles.

GENERAL HYGIENE MEASURES

Wash contaminated clothing before reuse.

Section 7. Stability and Reactivity

STABILITY

Stable: Stable.

Materials to Avoid: Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Nature of decomposition products

not known.

HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

Section 8. Toxicological Information

ROUTE OF EXPOSURE

Skin Contact: May cause skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: May cause eye irritation.

Inhalation: May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

Ingestion: May be harmful if swallowed.

SENSITIZATION

Sensitization: May cause allergic reaction.

TARGET ORGAN(S) OR SYSTEM(S)

Heart. Central nervous system.

SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

May be fatal if enters bloodstream.

CONDITIONS AGGRAVATED BY EXPOSURE

May be fatal if enters bloodstream.

Section 9. Disposal Considerations

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION

Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state, and local environmental regulations.

Section 10 Transport Information

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA

Non-Hazardous for Air Transport: Non-hazardous for air transport.

Section 11 - Other Information

For R&D use only. Not for internal or external human consumption.

WARRANTY

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. TIMTEC SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT.