

VALINOMYCIN

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NFPA RATINGS 0-4 : Health:4, Flammability:0, Instability:0

HEALTH HAZARDS

Fatal if swallowed or in contact with skin
Possess acute toxicity

HAZARDAL DECOMPOSITION PRODUCTS

Carbon oxides and nitrogen oxides

PERSONAL PROTECTION

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.
Wash hands thoroughly after handling.
Wear protective gloves/ protective clothing.
Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas.
Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

MATERIALS TO AVOID

Strong oxidising agents

FIRST AID MEASURES

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact, wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact, flush eyes with water as a precaution.

If swallowed, never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

FIRE FIGHTING MEASURES

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Wear self contained breathing apparatus for fire fighting if necessary.

STORAGE

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: 2 - 8 °C. Valinomycin will be stored in refrigerator At 5 °C in biosensors lab.

DISPOSAL

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

PERSONAL PROTECTIVE EQUIPMENT

Eye/face protection

Use face shield and safety glasses.

Skin protection

Handle with nitrile rubber gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use.

Body Protection

Complete suit protecting against chemicals

Respiratory protection

use a full-face particle respirator type or respirator cartridges. If the respirator is the sole means of protection, use a full-face supplied air respirator

USAGE PROCEDURE

1) 5mg of valinomycin will be mixed with 30mg of PVC and 70mg of Dioctyl sebacate in 10 ml of Tetrahydrofuran solvent in fume hood with all protection Like safety goggles, nitrile rubber gloves ,complete body suit and face mask.

2) 5 micro liter of the above mixture will be dispensed on glass substrate with the aid of nanodispenser in the biosensors lab.

USERS

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REFERENCE

<http://www.sigmaaldrich.com/catalog/product/sigma/v0627?lang=en®ion=IN>