



MATERIAL SAFETY DATA SHEET

PRODUCT: Geldanamycin

PRODUCT USEAGE: This product is supplied with the intention that it is for laboratory research use only. It must not, under any circumstances, be used for human, drug, food, cosmetic, agricultural, domestic or any other use. This product must only be handled and used by suitably qualified personnel in an appropriately equipped laboratory,

CHEMICAL IDENTIFICATION:
Name: Geldanamycin from *Streptomyces Hygroscopicus*
Cas#: 30562-34-6
MF: C29H40N2O9
MW: 560.6
Hazardous ingredient: Geldanamycin

HAZARDS IDENTIFICATION:
Label Precautionary Statements:
Caution:
Avoid Contact And Inhalation.
Possible Sensitizer.
Calif. Prop. 65 Reproductive Hazard.

FIRST AID MEASURES:
In cases of skin contact, wash immediately with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes and wash before wearing. Consult a physician. In cases of eye contact, flush immediately with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Consult a physician. In cases of inhalation, remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen and consult a physician. If breathing stops, give artificial respiration and consult a physician. In cases of ingestion, wash mouth out with water and consult the local poison center and a physician.

FIRE FIGHTING MEASURES:
Extinguishing media: Dry chemical powder, carbon dioxide, water spray or polymer foam.
Fire fighting procedures: Wear self-contained breathing apparatus and full protective clothing to prevent contact with skin and eyes.
Unusual Fire and Explosive Hazards: Upon thermal decomposition, it may EMIT TOXIC GASES.

ACCIDENTAL RELEASE MEASURES:

Steps to be Taken if Material is Released or Spilled:

Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust. Evacuate area. Wear a respirator, chemical safety goggles, rubber boots, and heavy rubber gloves. Sweep up and place in a suitable container. [345805, Rev. 01-23-01] Avoid raising dust. Hold for appropriate disposal. Wash spill site and ventilate area after material pickup is complete.

HANDLING AND STORAGE:

Store in a tightly closed container in a -2°C freezer. Protect from light. Material is harmful and an irritant. Possible teratogen and tumorigen. Avoid contact with material. Avoid prolonged or repeated exposure. Lab should be equipped with a safety shower and an eye wash station. Wash thoroughly after handling material.

EXPOSURE CONTROLS/PERSONAL PROTECTION:

Protective equipment: Wear suitable protective clothing, such as chemical resistant gloves and chemical safety goggles.

Respiratory Protection and Ventilation: Use a NIOSH/MSHA approved respirator. Handle in a chemical fume hood with adequate ventilation.

PHYSICAL AND CHEMICAL PROPERTIES:

Appearance: Yellow Solid

Solubility: Soluble in DMSO

STABILITY AND REACTIVITY:

Stability: Stable under normal handling procedures.

Incompatibles: Avoid contact with strong oxidizing agents, sensitive to moisture and light.

Hazardous combustion or decomposition products: Upon thermal decomposition, may emit toxic gases including carbon monoxide, carbon dioxide, and nitrogen oxides.



**TOXICOLOGICAL
INFORMATION:**

Acute effects: May be harmful by ingestion, inhalation or absorption through skin. Material may cause irritation to the eyes, skin, mucous membranes, and the upper respiratory tract. Exposure to material may cause the following: anesthetic action, difficulty breathing, headache, and dizziness. Ingestion of material may cause gastrointestinal irritation, vomiting, and diarrhea.

Chronic effects: There is limited evidence that Geldanamycin is teratogenic and tumorigenic in laboratory animals. Until further testing has been done, it should be treated as a possible teratogen and tumorigen in humans.

RTECS #: LX8920000

Toxicity data:

Oral; rat; LD50: 2500 mg/kg 1970. Journal of Antibiotics. 23, 442

lpr; mus; LD50: 1 mg/kg 1971. 'Compounds Available for Fundamental Research, Volume II-6, Antibiotics, A Program of Upjohn Company Research Laboratory.' 2(6), -

Ivn; mus; LD: >50 mg/kg 1995. Cancer Chemotherapy and Pharmacology. 36, 305

Ivn; dog; LD: >4200 mg/kg 1995. Cancer Chemotherapy and Pharmacology. 36, 305

Genetic Data and References:

Lym; mus; Dose: 1 mg/l DNA inhibition 1982. Journal of Antibiotics. 35, 886

Refer to the Registry of Toxic Effects of Chemical Substances (RTECS) for a definition of abbreviations used in the above text and for additional information. This report contains only selected information from the RTECS.

ECOLOGICAL INFORMATION:

No information available.

DISPOSAL CONSIDERATIONS:

Country, federal, state, and local regulations are varied and change frequently. For this reason, we recommend that you contact your local Department of Health Services for information on the disposal of this product or arrange for disposal by a licensed disposal company.

TRANSPORT INFORMATION:

IATA Class: N/A.345805, Rev. 01-23-01



REGULATORY INFORMATION:

Risk Phrases:

R20/21/22:

R36/37/38:

R45:

R63:

Harmful by inhalation, in contact with skin and if swallowed.
Irritating to eyes, respiratory system and skin. May cause cancer.
Possible risk of harm to the unborn child.

Safety Phrases:

S3/7/9:

S26:

S36/37/39:

S45:

Keep container tightly closed in a cool, well-ventilated place.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately.

OTHER INFORMATION:

Avoid contact with material. Avoid prolonged or repeated exposure. Wash thoroughly after handling. Material should only be handled by qualified, experienced professionals. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide for experienced personnel. **A.G. Scientific, Inc.** shall not be held liable for any damage resulting from the handling or from contact with the above product.

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