

Material Safety Data Sheet

according to EC-Regulation No. 1272/2008

updated: 02/2016

Version: 1.0

Section I - Product and Company Information

| | |
|---------------------------------|--|
| Product Name | Anisomycin |
| Product Number | PK-CA577-1549-10 |
| Product Classification | Cell Biology Reagents |
| Company and Contact Information | PromoCell GmbH Sickingenstrasse 63/65 69126 Heidelberg Germany Phone: +49 6221 – 649 34 0 E-mail: info@promokine.info |

Section II – Composition/Information on Ingredients

| Component | CAS Number | EC-No. | MW | Chemical Formula |
|------------|------------|-----------|-------|---|
| Anisomycin | 22862-76-6 | 245-269-7 | 265.3 | C ₁₄ H ₁₉ NO ₄ |

Section III – Hazard Information

| Component | Description | Volume | Safety Information |
|------------|-------------|--------|--------------------|
| Anisomycin | Solid | 10 mg | See below |

Anisomycin:

Emergency Overview

OSHA Hazards: Toxic by ingestion

GHS Classification: Acute toxicity, Oral (Category 3)

GHS Label elements, including precautionary statements

Pictogram:



Signal word: Danger

Hazard statement(s): H301 Toxic if swallowed.

Precautionary statement(s): P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

HMIS Classification

Health hazard: 2

Flammability: 0

Physical hazards: 0

NFPA Rating

Health Hazard: 2

Fire: 0

Reactivity Hazard: 0

Potential Health Effects

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

Skin: May be harmful if absorbed through skin. May cause skin irritation.

Eyes: May cause eye irritation.

Ingestion: Toxic if swallowed.

Section IV – First Aid Measures

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled: 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.

Section V – Fire-Fighting Measures

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters: Wear self-contained breathing apparatus for firefighting if necessary.

Hazardous combustion products: Hazardous decomposition products formed under fire conditions— carbon oxides, nitrogen oxides

Condition of flammability: Not flammable or combustible.

Section VI – Accidental Release Measures

Personal precautions: Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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

Section VII – Handling and Storage

Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: -20 °C

Section VIII – Exposure Controls/Personal Protection

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection

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. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with 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 in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Section IX – Physical and Chemical Properties

| Property | Anisomycin |
|----------------------|-------------------------|
| Appearance: | White crystalline solid |
| pH: | No data available |
| Water Solubility: | No data available |
| Other Solubility: | No data available |
| Boiling Point (°C): | No data available |
| Melting Point (°C): | No data available |
| Flash Point (°C): | No data available |
| Ignition Temp. (°C): | No data available |
| Density: | No data available |

Section X – Stability and Reactivity

| Property | Anisomycin |
|-----------------------------------|---|
| Chemical stability: | Stable under recommended storage conditions |
| Conditions to avoid: | No data available |
| Materials to avoid: | Strong oxidizing agents |
| Hazardous decomposition products: | Carbon oxides, nitrogen oxides |

Section XI – Toxicological Information

Anisomycin:

Acute toxicity: LD50 Oral – rat – 72 mg/kg

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitization: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Teratogenicity: no data available

Specific target organ toxicity – single exposure (GHS): no data available

Specific target organ toxicity – repeated exposure (GHS): no data available

Aspiration hazard: no data available

Potential Health Effects

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

Skin: May be harmful if absorbed through skin. May cause skin irritation.

Eyes: May cause eye irritation.

Ingestion: Toxic if swallowed.

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

Synergistic effects: no data available

Additional information: RTECS: BZ9800000

Section XII – Ecological Information

Anisomycin:

Toxicity: no data available

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

PBT and vPvB assessment: no data available

Other adverse effects: no data available

Section XIII – Disposal Information

Product: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging: Dispose of as unused product.

Section XIV – Transport Information

Anisomycin:

DOT (US): UN-number: 3462, Class: 6.1, Packing group: III; Proper shipping name: Toxins, extracted from living sources, solid, n.o.s. (1,4,5-Trideoxy-1,4-imino-5-(p-methoxyphenyl)-D-xylo-pentitol 3 acetate); Marine pollutant: No; Poison inhalation hazard: No

IMDG: UN-number: 3462, Class: 6.1, Packing group: III; EMS-No: F-A, S-A; Proper shipping name: TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S. (1,4,5-Trideoxy-1,4-imino-5-(p-methoxyphenyl)-D-xylo-pentitol 3 acetate); Marine pollutant: No

IATA: UN-number: 3462, Class: 6.1, Packing group: III; Proper shipping name: Toxins, extracted from living sources, solid, n.o.s. (1,4,5-Trideoxy-1,4-imino-5-(p-methoxyphenyl)-D-xylo-pentitol 3 acetate)

Section XV – Regulatory Information

OSHA Hazards: Anisomycin: Toxic by ingestion

SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. **SARA**

313 Components: SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title II, Section 313.

SARA 311/312 Hazards: Anisomycin: Acute Health Hazard

Massachusetts Right To Know Components: No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components: (1,4,5-Trideoxy-1,4-imino-5-(p-methoxyphenyl)-D-xylo-pentitol 3 acetate) CAS-No. 22862-76-6

New Jersey Right To Know Components: (1,4,5-Trideoxy-1,4-imino-5-(p-methoxyphenyl)-D-xylo-pentitol 3 acetate) CAS-No. 22862-76-6

California Prop. 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

EU Regulations:

| Component | Risk Phrases | Safety Phrases |
|------------|--------------|----------------|
| Anisomycin | R24/25 | S36/37/39, S45 |

Section XVI - 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. PromoCell shall not be held liable for any damage resulting from handling or from contact with the above product

FOR IN VITRO RESEARCH USE ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC PROCEDURES.

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