

# Material Safety Data Sheet

according to ISO 11014-1 — 93/112/EC.

## Ham's Nutrient Mixture F12

with 1.0 mM L-glutamine

CATALOG NO. 51651

Observe all Import Permit requirements and normal safety regulations.

### Section I – Identification of Substance

**Product Name:**

Ham's Nutrient Mixture F12, with 1.0 mM L-glutamine

**Product Number:**

51651

### Section II – Composition/Data on Components

**Product Classification:**

Liquid Cell Culture Media

The subject formulation is a nutrient blend of amino acids, vitamins, carbohydrates, organic and inorganic supplements and salts. Phenol red is included as a pH indicator. With the exception of purified water, all ingredients are in concentrations of less than 1%.

### Section III – Hazards Identification

Not applicable.

### Section IV – First Aid Measures

**Eye Contact:**

In case of contact with eyes, flush thoroughly with water and contact a physician.

**Ingestion:**

In case of accidental swallowing, rinse the mouth with fresh water provided the person is conscious. Contact a physician.

**Inhalation:**

If inhaled, remove to fresh air. If breathing becomes difficult, give oxygen. If not breathing, give artificial respiration. Contact a physician.

**Skin Contact:**

In case of contact with skin, wash the affected area with copious quantities of soap and water. Should irritation occur, contact a physician.

### Section V – Fire Fighting Measures

**Extinguishing Media:**

Water spray, dry chemical powder or appropriate foam. Wear self-contained breathing apparatus and protective clothing. Avoid contact with skin or eyes.

### Section VI – Accidental Release Measure

Place in a closed container and hold for waste disposal. Wash area thoroughly after clean-up is complete.

### Section VII – Handling and Storage

**Handling:**

Wear safety glasses or goggles, protective clothing and chemical-resistant gloves.

**Store at:**

2 to 8 C. Protect from light.

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## Section VIII – Exposure Controls and Personal Protection

### Eye Protection:

Safety glasses or goggles required.

### Protective Gloves:

Chemical-resistant gloves required.

### Respiratory Protection:

Respirator or protective mask recommended.

### Ventilation:

Mechanical (general) or local exhaust required.

### Other Protection Equipment:

Safety shower and eye bath.

## Section IX – Physical and Chemical Properties

### Appearance:

Clear orange solution

### pH:

7.0 - 7.4

## Section X – Stability and Reactivity

Stable. Hazardous Polymerization will not occur.

## Section XI – Toxicological Information

### Primary Irritant Effect:

This product is a potential irritant to eyes, respiratory system and skin. This product may also be harmful if ingested. Complete toxicological properties have yet to be determined.

### Intended Use:

For further manufacturing use. THIS PRODUCT IS NOT INTENDED FOR HUMAN OR THERAPEUTIC USE.

## Section XII – Ecological Information

Not Available.

## Section XIII – Disposal Considerations

### Waste Disposal:

Follow all official regulations for chemical waste disposal.

## Section XIV – Transport Information

Not Applicable.

## Section XV – Regulatory Information

Observe the normal safety regulations when handling this material.

## Section XVI – Other Information

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