

MATERIAL SAFETY DATA SHEET

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1. PRODUCT IDENTIFICATION

PRODUCT NAME: rhIL-12; Recombinant Human Interleukin Twelve
PRODUCT DESCRIPTION: rhIL-12, Bulk Drug Substance In Solution. This Bulk Drug Substance is usually stored and transported in 1 liter or 3 liter containers
CAS Registry Number:

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT NAME</u>	<u>CONCENTRATION</u>
rhIL-12	1-2 mg/ml
Na Cl	8 mg/ml
KCl	<1 mg/ml
KH ₂ PO ₄	<1 mg/ml
Na ₂ HPO ₄	1 mg/ml
Water	>98%

(NOTE: Solution has ph of approximately 7.4)

3. PHYSICAL DATA

Appearance: Storage of solution is normally at freezing temperature. Liquid is clear and colorless.
Solubility in Water: Completely miscible
Boiling Point: Approximately 100° C

4. FIRE AND EXPLOSION DATA

Flash Point: Non Flammable
Flammable Limits: Non Flammable
Unusual Fire and Explosion Hazards: None

5. REACTIVITY

STABILITY: Stable under normal conditions of storage.
HAZARDOUS POLYMERIZATION: Will not occur.
INCOMPATIBILITIES: None that are known.

6. HEALTH HAZARD

No OSHA or other occupational health exposure limit has been established.

Accidental needle stick or open wound exposure to rhIL-12 could potentially cause serious adverse health effects.

RhIL-12 has been assessed for safety in Cynomologous monkeys at dose ranging from 0.1 through 50 ug/kg/day for up to 28 days of repeated dosing. In these studies the primary dose related adverse effects have been hypoactivity, fever, diarrhea, dehydration, decreased food consumption and body weights, elevation of liver cytosolic enzymes, and decreases of white blood cell, red blood cell and platelet counts. These effects have been noted at dosages of 1.0 ug/kg/day and higher by both the I.V. and S. Q. routes after repeated dose administration. All of these changes have been reversible upon discontinuation of dosing.

Treatment of otherwise healthy Cynomologous monkeys with rhIL-12 has resulted in deaths at dosages of 10 and 50 ug/kg/day after repeated exposure. A single treatment related death has occurred in a monkey with pre-existing renal disease at 1.0 ug/kg/day after repeated dose exposure.

7. FIRST AID

Seek immediate medical attention if needle stick or other exposure to open wound should occur.

In case of eye contact, rinse eye for 15-minutes with water and seek immediate medical attention.

For skin contact, wash with soap and water.

8. SPILL, LEAK AND DISPOSAL INSTRUCTIONS

Although this material is not classified as infectious or regulated biohazardous material, handle and treat spills, leaks and waste material as medical waste.

9. SPECIAL PRECAUTIONS

CAUTION: Federal law (U.S.A.) prohibits dispensing without a prescription.

The information and recommendations presented in this MSDS are based on sources believed to be accurate, therefore, Genetics Institute, Inc. assumes no liability for the accuracy or completeness of this information. It is the user's responsibility to determine the suitability of the information for their particular purpose.