
SECTION I – PRODUCT IDENTIFICATION

Product Name: TransIT[®]-mRNA Transfection Kit (two components: TransIT mRNA Reagent and mRNA Boost Reagent)
Part#: Part of MIR 2225, MIR 2250, MIR 2255, MIR 2256, MIR 2251
Product Use: Research Laboratory

PRECAUTIONARY LABELING

The components of TransIT-mRNA Reagent (< 0.25% by weight) and mRNA Boost Reagent (<0.05% by weight) are potentially harmful, although the chemical, physical, and toxicological properties have not been thoroughly investigated. Handle with care, and practice safe laboratory techniques. The information included within this MSDS pertains to ethanol, which is used as a solvent.

SECTION II – COMPONENTS

Component:	CAS#:	Hazard:	Weight%:
Ethanol	64-17-5	Highly Toxic, Flammable	100.0

SECTION III – PHYSICAL DATA

Appearance: Clear Solution
Boiling Point: 78°C
Specific Gravity: 0.791
Solubility in Water: Soluble

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

Fire Extinguishing Media: Use water, alcohol foam, dry chemical, carbon dioxide, or halon.
Special Fire-Fighting Procedures: Avoid breathing vapors. Use self-contained breathing apparatus. Firefighters should wear proper protective equipment.
Unusual Fire and Explosion Hazards: None

SECTION V – HEALTH HAZARD DATA

TLV: 1000 ppm
PEL: N/A
Oral Rat LD₅₀: 7060 mg/kg
Carcinogenicity: Unknown

SECTION VI – REACTIVITY DATA

Stability: Stable
Incompatibilities: Oxidizing agents, acetyl chloride

SECTION VII – SPILLS AND DISPOSAL

Spills: Wear suitable protective equipment. Eliminate ignition sources. Use absorbent material and place in a tightly sealed container for disposal. Flush area with water.

Disposal: Dispose in accordance with all applicable federal, state, and local regulations.

SECTION VIII – PROTECTIVE EQUIPMENT

Ventilation: Local exhaust

Respiratory Protection: None

Eye/Skin Protection: Wear safety glasses with side-shields and chemical resistant gloves. Wash thoroughly after handling.

SECTION IX – STORAGE AND HANDLING

Storage Requirements: Keep container tightly closed. Keep away from sparks, flame, and heat. Avoid contact with eyes, and use adequate ventilation. Store at 4°C. Do not freeze.

SECTION X – TRANSPORTATION

AIR (ICAO)

Proper Shipping Name: Ethyl Alcohol

Hazard Class: 3

Packing Group: II

Labels: Flammable Liquid

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