

SECTION I – PRODUCT IDENTIFICATION

Product Name: TransIT-PRO[®] Transfection Reagent and PRO Boost Reagent
Part#: Part of MIR 5700 and MIR 5760
Product Use: Research Laboratory

PRECAUTIONARY LABELING

TransIT-PRO Transfection Reagent (< 0.5% by weight) and PRO Boost Reagent (< 0.083%) are potentially harmful, although the chemical, physical, and toxicological properties have not been thoroughly investigated. Handle with care, and practice safe laboratory techniques.

SECTION II – COMPONENTS

TransIT-PRO Transfection Reagent:	CAS#:	Hazard:	Weight%:
Ethanol	64-17-5	Highly Toxic, Flammable	80.0
Water	7732-18-5	N/A	20.0

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

SECTION III – PHYSICAL DATA

Appearance: Clear Solution
Boiling Point: 78°C
Vapor Pressure: 44.6 mm Hg
Specific Gravity: 0.7906
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: 2000 mg/kg
Carcinogenicity: Possible carcinogen. No data available.
Acute Toxic Effects: Irritating to eyes and skin on contact. Inhalation causes irritation to the lungs and respiratory system. Follow safe laboratory practices and wear proper protective when handling this compound. Acute toxicity of these substances is not fully known.
Chronic Toxic Effects: Possible risk of harm to the unborn child. Chronic toxicity of these substances is not fully known.

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.
Exposure Limits	These reagents are classified as possible carcinogens. There is not acceptable exposure limit for a carcinogen.

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 or at -20°C.
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SECTION X – TRANSPORTATION

AIR (ICAO)

Proper Shipping Name:	Ethyl Alcohol
Hazard Class:	3
Packing Group:	II
Labels:	Flammable Liquid

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