
SECTION I – PRODUCT IDENTIFICATION

Product Name: Label IT[®] miRNA Labeling Kits - Reconstitution Solution and Labeling Reagent(s)
Part#: Part of MIR 9305, 9325, 9410, 9450, 9510, 9550, 9610, 9650
Product Use: Research Laboratory

PRECAUTIONARY LABELING

The components of Label IT[®] miRNA Labeling Kits (< 0.1% 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 DMSO, which is used as a solvent. We are unaware of any hazards with these products when mixed other than those associated with the individual reagents listed below.

SECTION II – COMPONENTS

Component:	CAS#:	Hazard:	Weight%:
Dimethyl sulfoxide	67-68-5	Irritant. Irritating to eyes, respiratory system and skin. Readily absorbed through skin. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Do not breathe vapor.	100
Label IT Reagent	Proprietary	The hazards of this reagent are not fully characterized. Potentially harmful – handle with care. Labeling reagent covalently modifies nucleic acids.	100 <0.1 when reconstituted

SECTION III – PHYSICAL DATA

Appearance: DMSO - Clear Solution
Label IT Reagent – Dried film
Boiling Point: DMSO – 189°C
Specific Gravity: DMSO – 1.101
Melting Point: DMSO – 18.4°C
Vapor Pressure: DMSO – 0.42 mm Hg

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

Fire Extinguishing Media: Use water spray, alcohol foam, dry chemical, carbon dioxide, or halon.
Special Fire-Fighting Procedures: Avoid breathing vapors. Use self-contained breathing apparatus. Prevent contact with skin and eyes. Firefighters should wear proper protective equipment.
Unusual Fire and Explosion Hazards: DMSO – Emits toxic fumes under fire conditions
Label IT Reagent – None known

SECTION V – HEALTH HAZARD DATA

TLV:	N/A
PEL:	N/A
Oral Rat LD₅₀:	DMSO –14500 mg/kg
Carcinogenicity:	N/A

SECTION VI – REACTIVITY DATA

Stability:	DMSO – Stable. Not a significant hazard in these quantities
Incompatibilities	DMSO – Acid chlorides, phosphorus halides, strong acids, strong oxidizing agents, strong reducing agents
Conditions to Avoid:	DMSO – Excessive heat and incompatible materials
Decomposition Products:	DMSO – Carbon monoxide, carbon dioxide, sulfur oxides

SECTION VII – SPILLS AND DISPOSAL

Spills:	Wear suitable protective equipment such as self-contained breathing apparatus, rubber boots and heavy rubber gloves. Evacuate area. Absorb with sand or vermiculite and place in closed container for disposal. Ventilate area and wash spill site after material pickup is complete.
Disposal:	Dispose in accordance with all applicable federal, state, and local regulations.

SECTION VIII – PROTECTIVE EQUIPMENT

Ventilation:	Mechanical ventilation is recommended
Respiratory Protection:	Recommended
Eye/Skin Protection:	Gloves, protective clothing, and eyewear should be worn and safe laboratory practices followed.

SECTION IX – STORAGE AND HANDLING

Storage Requirements:	DMSO – Refrigeration. <i>Label IT</i> Reagent – Freezer storage recommended. Protect from light.
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SECTION X – TRANSPORTATION

AIR (IATA/ICAO):	Non hazardous for Air Transport
Proper Shipping Name:	Combustible Liquid, n.o.s
Hazard Class:	Combustible Liquid
Packing Group:	III
Labels:	None

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