



Mirus Bio Corporation
 505 S. Rosa Rd.
 Madison, WI 53719
 888.530.0801 or 608.441.8252
 www.mirusbio.com

Material Safety Data Sheet

Section I - Product Identification

Product Name *Label IT*[®] Tracker Labeling Reagent and Reconstitution Solution
Part# Not available separately; Part of MIR 7010, 7011, 7012, 7013, 7014, 7015
Product Use Research Laboratory

Precautionary Labeling

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 (DMSO)	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 breath vapor.	100
Labeling Reagent (LR)	Proprietary	Potentially harmful – handle with care. Labeling reagent covalently modifies nucleic acids.	100 <0.1 when reconstituted

Section III - Physical Data

Appearance	(DMSO) clear liquid (LR) dried film	Specific Gravity	(DMSO) 1.101
Boiling Point	(DMSO) 189°C	VaporPressure (mmHg)	0.42
Melting Point	(DMSO) 18.4°C		

Section IV - Fire and Explosion Hazard Data

Flash Point	(DMSO) 85°C	UEL (%) (DMSO)	63
Autoignition Temp.	(DMSO) 300°C	LEL (%) (DMSO)	3.5

Fire Extinguishing Media

(DMSO and LR): Use water spray, carbon dioxide, dry chemical powder or appropriate foam.

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.
 (LR) None known.

Section V - Health Hazard Data

TLV	N/A	Oral Rat LD₅₀	(DMSO) 14500mg/kg
STEL	N/A	Carcinogenicity	N/A
PEL	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

Evacuate area. Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves. 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. (LR) Freezer storage recommended. Protect from light.

The information given above was obtained from reliable sources and we believe it is correct. No warranty is expressed or is implied regarding the accuracy or completeness of this information. It is the user's responsibility to verify this information and determine its suitability under their own operating conditions. In no case will Mirus be liable for incidental or consequential damages, including lost profits.