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**SECTION I – PRODUCT IDENTIFICATION**

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**Product Name:** TransIT<sup>®</sup>-2020 Transfection Reagent  
**Part#:** Part of MIR 5400, MIR 5404, MIR 5405, MIR 5406, MIR 5410  
**Product Use:** Research Laboratory

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**PRECAUTIONARY LABELING**

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The components of TransIT-2020 Transfection Reagent (< 0.25% 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.

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**SECTION II – COMPONENTS**

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

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**SECTION III – PHYSICAL DATA**

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

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**SECTION IV – FIRE AND EXPLOSION HAZARD DATA**

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**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

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**SECTION V – HEALTH HAZARD DATA**

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**TLV:** 1000 ppm  
**PEL:** N/A  
**Oral Rat LD<sub>50</sub>:** 7060 mg/kg  
**Carcinogenicity:** Unknown

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**SECTION VI – REACTIVITY DATA**

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**Stability:** Stable  
**Incompatibilities** Oxidizing agents, acetyl chloride

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## **SECTION VII – SPILLS AND DISPOSAL**

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**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.

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## **SECTION VIII – PROTECTIVE EQUIPMENT**

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**Ventilation:** Local exhaust

**Respiratory Protection:** Use self-contained breathing apparatus in high vapor concentrations.

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

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## **SECTION IX – STORAGE AND HANDLING**

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**Storage Requirements:** Keep container tightly closed. Keep away from sparks, flame, and heat. Avoid contact with eyes, and use adequate ventilation. Store at -20 °C.

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## **SECTION X – TRANSPORTATION**

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**AIR (ICAO)**

**Proper Shipping Name:** Ethyl Alcohol

**Hazard Class:** 3

**Packing Group:** II

**Labels:** Flammable Liquid

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