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Material Safety Data Sheet

Section I - Product Identification

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|---------------------|---|
| Product Name | <i>TransIT</i> [®] -siPAK Plus Trial Kit: <i>TransIT</i> -TKO [®] and <i>TransIT</i> [®] -siQUEST [™] Reagents |
| Part Number | Part of MIR 2270 |
| Product Use | Research Laboratory |

Precautionary Labeling

As yet, the chemical, physical, and toxicological properties of the *TransIT*-TKO[®] and *TransIT*[®]-siQUEST[™] Reagents, the two components present within the *TransIT*[®]-siPAK Trial Kit, have not been thoroughly investigated. The *TransIT*-TKO[®] (<0.25% by weight) and *TransIT*[®]-siQUEST[™] (<0.3% by weight) Reagents are potentially harmful. Handle with care, and practice safe laboratory techniques. We are unaware of any hazards with either the *TransIT*-TKO[®] or *TransIT*[®]-siQUEST[™] Reagents other than those associated with ethanol, which is used as a solvent. The following information pertains to ethanol.

Section II - Components

| <u>Component</u> | <u>CAS#</u> | <u>Hazard</u> | <u>Weight %</u> |
|------------------|-------------|----------------------------|-----------------|
| Ethanol | 64-17-5 | Highly Toxic, Flammable | 100 or 80 |

Section III - Physical Data

| | | | |
|-----------------------|-----------------|----------------------------|---------|
| Appearance | Clear solution. | Specific Gravity | 0.7906 |
| Boiling Point | 78°C | Solubility in Water | Soluble |
| Vapor Pressure | 44.6 mm Hg | | |

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 | Oral Rat LD₅₀ | N/A |
| PEL | N/A | Carcinogenicity | Unknown |

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|-------------------------------------|--------|--------------------------|---|
| Section VI - Reactivity Data | | | |
| Stability | Stable | Incompatibilities | Strong oxidizing agents, strong inorganic acids |

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| Section VII - Spills and Disposal |
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Spills

Wear suitable protective equipment. Eliminate ignition sources. Use absorbent 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 sideshields and chemical resistant gloves.

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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 4°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 |

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.



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Material Safety Data Sheet

Section I - Product Identification

| | |
|---------------------|--|
| Product Name | <i>TransIT</i> [®] -siPAK Plus Trial Kit – 10X RNAi Dilution Buffer |
| Part# | Part of MIR 2270; not available separately |
| Product Use | Research Laboratory |

Precautionary Labeling

The *Label IT*[®] RNAi Delivery Control, as part of the *TransIT*[®]-siPAK Plus Trial Kit, is not considered hazardous and does not require a separate material safety data sheet. As yet, the chemical, physical, and toxicological properties of these products have not been thoroughly investigated. The *Label IT*[®] RNAi Delivery Control contains a 10X RNAi Dilution Buffer (500 mM Tris pH 7.5, 1 M NaCl) and this information is intended to provide general guidelines about its use.

Section II - Components

| <u>Component</u> | <u>CAS#</u> | <u>Hazard</u> | <u>Weight %</u> |
|---------------------------------|-------------|--|-----------------|
| Tris(hydroxymethyl)aminomethane | 77-86-1 | Irritant. Irritating to eyes, respiratory system and skin. | 6.1 |
| Sodium chloride | 7647-14-5 | Irritant. Irritating to eyes, respiratory system and skin. | 5.9 |

Section III - Physical Data

| | | | |
|------------------------|---------------------------------|-------------------------------------|---------|
| Appearance/Odor | Clear colorless odorless liquid | Specific Gravity | N/A |
| Boiling Point | N/A (Similar to water) | Vapor Pressure (mm Hg) | N/A |
| Melting Point | N/A | Solubility in H₂O | Soluble |

Section IV - Fire and Explosion Hazard Data

| | | | |
|----------------------------|-----------------|-----------------------|-----|
| Flash Point | Not combustible | UEL (%) (DMSO) | N/A |
| Auto ignition Temp. | N/A | LEL (%) (DMSO) | N/A |

Fire Extinguishing Media

Water, CO₂, Foam, Dry Chemical

Special Fire-Fighting Procedures

Irritant; wear self-contained breathing apparatus and protective clothing.

Unusual Fire and Explosion Hazards

Irritating and/or toxic fumes may be generated by thermal decomposition or combustion.

Section V - Health Hazard Data

| | | | |
|------------|-----|---------------------------------|-----|
| TLV | N/A | Oral Rat LD₅₀ | N/A |
|------------|-----|---------------------------------|-----|

| | | | |
|-------------|-----|------------------------|-----|
| STEL | N/A | Carcinogenicity | N/A |
| PEL | N/A | | |

Emergency First Aid Procedures

Inhalation If breathing becomes difficult, remove victim to fresh air. Seek medical assistance.

Ingestion No adverse effects are expected, however, if symptoms occur, keep victim warm and seek medical attention.

Skin Contact Wash affected area with soap and water for at least 15 minutes. Seek medical attention if the skin becomes irritated.

Eye Contact Flush contaminated eye(s) with large volumes of water for at least 15 minutes.

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| Section VI - Reactivity Data | | | |
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| | | | |
|----------------------------|-------------------------------|---|-----|
| Stability | Stable. | Incompatibilities | N/A |
| Conditions to Avoid | Excess heat, flame, pressure. | Hazardous Decomposition Products | N/A |

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| Section VII - Spills and Disposal | | | |
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Spills

Absorb on neutral material and place in container.

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

Not expected to require any special ventilation.

Respiratory Protection

None needed.

Eye/Skin Protection

Gloves, protective clothing, and eyewear should be worn and safe laboratory practices followed.

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| Section IX - Storage and Handling | | | |
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Storage Requirements

Keep tightly closed. Store at 4°C.

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