

TREVIGEN®

MATERIAL SAFETY DATA SHEET

CHEMICAL IDENTIFICATION

PRODUCT NAME: TACS™ 2 TdT Core Kit

CATALOG NUMBERS: **4810-30-CK**; 4810-30-02; 4810-30-03; 4810-30-04; 4810-30-05; 4800-30-06; 4810-30-09; 4810-30-10; 4810-30-14

KIT COMPONENTS

10X TdT Labeling Buffer
10X TdT Stop Buffer
TdT dNTP Mix
TdT Enzyme
Strep-HRP
50X Co²⁺
50X Mg²⁺
50X Mn²⁺

HAZARDS IDENTIFICATION

Label Precautionary Statements:

Caution: Toxic (USA, EU). Cobalt chloride is dangerous for the environment. Toxic if swallowed. May cause burns. Cobalt chloride, TdT and streptavidin-horseradish peroxidase may cause sensitization in certain individuals by inhalation and skin contact. Cobalt chloride may cause cancer by inhalation, and is harmful to the aquatic environment. Probable Carcinogen (US). Cobalt chloride target organs: Thyroid, heart, blood, kidneys, pancreas; male reproductive system. Manganese chloride targets: Nerves, Lungs, Testes; Male reproductive system.

Thimerosal is present at a very low amount in the 10X TdT labeling buffer (0.01%) (cat# 4810-30-02). According to the OSHA Hazard Communications Standard (CFR 1910.1200), if a mixture contains less than 1% of a hazardous chemical or 0.1% of a carcinogen, the mixture shall not be considered hazardous. However, precautions for handling potentially dangerous reagents should be practiced when using these products. To aid in the determining handling procedures, we offer the following data:

LD₅₀ (thimerosal) = 75 mg/kg (rat: oral)

Emergency Overview:

HMIS RATING: Health: 3	Flammability: 0	Reactivity: 0
NFPA RATING: Health: 3	Flammability: 0	Reactivity: 0

HANDLING AND STORAGE

STORAGE: Suitable: -20 °C or 4 °C. Please see individual MSDS sheets.

TRANSPORT INFORMATION

DOT (US): Proper Shipping Name: Chemical Kits or First Aid Kits [(Containing hazardous materials)]

UN#: 3316
Class: 9
Packing Group: None
Hazard Label: Class 9

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IATA: Proper Shipping Name: Chemical kit
IATA UN Number: 3316
Hazard Class: 9
Packing Group: III

REGULATORY INFORMATION**US CLASSIFICATION AND LABEL TEXT:**

Indication of Danger: Toxic (USA, EU)

Risk Statements: Toxic if swallowed. May cause burns. May cause sensitization in certain individuals by inhalation and skin contact. May cause cancer by inhalation, and is harmful to the aquatic environment. Probable Carcinogen (US). Target organs: Thyroid, heart, blood, kidneys, pancreas, male reproductive system, nerves; lungs.

Safety Statements: In case of contact, rinse immediately with plenty of water for at least 15 minutes and seek medical advice. If ingested, do not induce vomiting without medical advice. Drink 1 or 2 glasses of water. Wear suitable protective clothing, gloves, and eye/face protection. Dispose of Cobalt Chloride as hazardous waste.

US Statements: Probable Carcinogen (US). California Prop. 65: Carcinogen (powder). Toxic if swallowed. Target organs: Thyroid, heart, blood, kidneys, pancreas, male reproductive system, nerves; lungs.

UNITED STATES REGULATORY INFORMATION

SARA LISTED: Yes

This product contains components that are subject to SARA 313 reporting requirements.

EU ADDITIONAL CLASSIFICATION:

European Information:

Symbol of Danger: T

Indication of Danger: Toxic

R: 49-42/43-52/53

Risk Statements: May cause cancer by inhalation, and is harmful to the aquatic environment. May cause long-term adverse effects in the aquatic environment. Toxic if swallowed. May cause burns. May cause sensitization in certain individuals by inhalation and skin contact. Limited evidence of carcinogenic effect.

S: 53-23-36/37-45-60

Safety Statements: Restricted to professional users. Attention—Avoid Exposure—obtain special instructions before use. In case of contact, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing and gloves. Dispose of Cobalt Chloride as hazardous waste.

OTHER INFORMATION

The above information is believed to be correct, however, the physical, chemical, and toxicological properties of the product may not yet have been fully characterized. Trevigen recommends the use of gloves, lab coats and eye protection while using or handling this product. Trevigen assumes no liability for damage resulting from handling or contact with the above product. This MSDS does not represent any guarantee of the properties of the product.

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