

IMCO	Material Safety Data Sheet	Date : 22/06/12
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Section 1 - Product Identification/ Manufacturer			
Trade name : Fluorescent kit Thioredoxin reductase activity assay			
Catalog name: FkTRXR-03			
CAS number: NA			
Manufacturer: IMCO Corporation Ltd AB Scheeles väg 2 171 77 Stockholm Sweden Telephone number: +46 8 335309 Facsimile number: +46 8 7284776 Email: info@imcocorp.se			
Section 2 –Composition/Information on ingredients			
Name of reagents	Ingredients	CAS #	Concentration
Assay buffer	Lyophilized bovine Serum albumin	NA	2 mg dry substance
Ethylenediaminetetraacetate	Dry substance	6381-92-6	10 ml of 1 mM dried
Tris(hydroxymethyl)aminomethane	Dry substance	77-86-1	10ml of 50 mM dried
NADPH: reduced nicotinamide adenine nucleotide phosphate	Dry substance	2646-71-1	0.5 ml of 4 mg/ml dried
Recombinant thioredoxin reductase (rat)	In 50% glycerol	NA	18 mUnits in 5 µl with 50 % glycerol
Human thioredoxin 1	Dry substance	NA	0.24 mg
Fluorescent substrate: Fluorescein-labeled bovine insulin	Dry substance	NA	0.4 mg
Section 3 – Hazards Identification			
Avoid contact and inhalation. To the best of our knowledge, toxicological properties have not been investigated.			
Section 4 – First Aid Measures			
If inhaled, remove to fresh air. Get immediate medical attention. If swallowed, wash out mouth with water if the person is conscious. Get medical attention. In case of skin contact, immediately wash skin with soap and excess water. In case of contact with eyes wash with large amounts of water. Call a physician			
Section 5- Fire Fighting Measures			
Extinguish media suitable: water spray, carbon dioxide, dry chemical powder or appropriate foam. Special risk: none Special hazard. None Special protective equipment for fire fighters: none			

Section 6- Accidental Release Measures

Procedures of personal protection:

Wear suitable laboratory protective equipment like lab coat, gloves and safety glasses

Methods of cleaning up:

Sweep up, place in bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Section 7- Handling and Storage

Storage.

Condition of storage. Store at 2-8 °C or -20 °C.

Handling: Directions for safe handling include to avoid contact with eyes, skin and clothing and repeated exposure. Wear suitable protective clothing like lab coat, gloves and safety glasses. Wash after contact.

Section 8 – Exposure Controls/ Personal Protection

Engineering controls: mechanical exhaust required.

General hygiene measures: wash thoroughly after handling.

Personal protective equipment: none

Respiratory protection: none

Hand protection: gloves suitable for lab work.

Body protection: protective clothing.

Section 9 – Physical and Chemical Properties

Physical State: dry powder salt-free.

Color: colorless.

Smell: odorless

pH value. Neutral

Melting point: no data.

Boiling point: no data.

Flash point: no data.

Solubility in water. Soluble.

Partition coefficient octanol/water: no data.

Section 10- Stability and Reactivity

Stability: Stable.

Conditions to be avoided: heat and strong acid or alkali.

Hazardous decomposition products: unknown.

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Section 11 –Toxicological Information
<p>The product contains no toxic component.</p> <p>Acute toxicity: unknown</p> <p>LD 50 oral rat (mg/kg): unknown.</p> <p>LD50 inhalation: unknown.</p> <p>Toxicological properties have not been studied for this pure protein.</p>
Section 12- Ecological Information
<p>Release to the environment: nontoxic</p> <p>Water hazard: not known</p>
Section 13 Disposal Information
<p>Substance Disposal: Observe all state, federal and local environmental regulations. The protein can be burnt, washed out in the sink or taken care of by a disposal service.</p>
Section 14 – Transport Information
<p>RID/ADR: No limitation for road transport.</p> <p>IMDG: No limitation for sea transport.</p> <p>IATA: No limitation for air transport.</p>
Section 15 – Regulatory Information
<p>According to the Act No 157/1998 Coll. on chemical substances and chemical preparations and on amendments in some other laws and acts, the components in the Glutaredoxin 1 E. coli C14S protein are nonhazardous substances in said amounts and concentrations.</p>
Section 16- Other Information
<p>Warranty: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.</p> <p>Use of product:</p> <p>For R&D use only. Not for drug, household or other uses.</p>