

# Material Safety Data Sheet (MSDS)

Product Name: TriStar PCE HB50

Version: 03/05/2023-03

#### 1. Product and Company Identification

TriStar PCE HB50 [A Hybrid High Range Water Reducer and Slump Controller 1.1 Product Name

PolyCarboxylate Ether (PCE) Polymer for Concrete]

Polycarboxylic copolymer solution 1.2 Chemical Family

1.3 Hazardous Classification Irritating to eyes and skins

1.4 General Use Superplasticizer for cement and concrete 1.5 Manufacturer's Name TRISTAR TECHNICAL COMPANY LIMITED

1.6 Head Office Factory #2460, Street #12, Second Industrial City, Dammam 34334-7030 K.S.A.

1.7 Phone: +966 55 243 1548

# 2. Composition and Information on Ingredients

2.1 Component Polycarboxylic copolymer / Water

2.2 CAS No. 1648593-57-0 2.3 Composition (%) 50.0 / 50.0

#### 3. Hazard Information

3.1 Eye Contact Primary eye irritating

3.2 Skin Contact May cause skin drying when exposed for long time

3.3 Inhalation N/A 3.4 Ingestion N/A 3.5 Chronic Health Effect N/A

#### 5. Fire Fighting Measures

5.1 Flash Point N/A 5.2 Natural Flammable point N/A 5.3 Limits of Flammability N/A

5.4 Extinguishing Media Water Spray or fog, powder, carbon dioxide, foam.

5.5 Fire Fighting Introduction Should wear a self-contained breathing apparatus and full protective clothing

5.6 Restricted Chemicals under

Fire Law

N/A

5.7 Products of Combustion N/A

#### 6. Special Protection Information

6.1 Personal Protective Rubber gloves, Goggles and other appropriate protective equipment are

Equipment recommended for workers' safety.

6.2 Steps to be Taken in Case

of Large Spill and Leak

Must keep the products from flowing into draining system of river by forming

appropriate height of sand for soil.

In case of small spill and leak, dilute with water and mop up, or adsorb with an inert dry material(sand or soil) and place in an appropriate waste disposal container.

6.3 Waste Disposal Methods Finish cleaning by spreading water on the contaminated surface and dispose

according to local / regional authority requirements.

# 7. Handling and Storage

Keep away from flammable, spark and hot materials.

7.1 Precautions for Safe Keep container in a well-ventilated area.

Storage Avoid contact with skin and eyes.

Keep away from strong oxidizers.

Keep container tightly closed in a cool and roofed area. 7.2 Storage Precautions

Synthetic resin including polypropylene is recommended for container material.

# 8. Exposure Control and Personal Protection

Provide exhaust ventilation (local or mechanical) or other engineering controls to

keep the airborne concentration of vapors below their respective threshold limit 8.1 Engineering controls

value.

Not required in normal use.

8.2 Respiratory Protection If risk of inhalation of aerosols/mist/spray, wear half mask respirator.

8.3 Eye Protection Wear safety glasses.

8.4 Hand Protection Wear impervious rubber gloves.

No skin contact is recommended. 8.5 Body Protection Wear protective work clothes.

Wash contacting area clearly with soap when contacted. 8.6 Precautions for Sanitation

8.7 Exposure Limits N/A

## 9. Physical and Chemical Properties

Yellow Liquid 9.1 Appearance

9.2 Odor Mild 9.3 pH 3.8±2.0

9.4 Solubility Easily soluble in water

9.5 Boiling / Condensing Point 100°C approx.

< 0°C 9.6 Melting / Freezing Point 9.7 Explosion Properties N/A 9.8 Oxidizing Properties N/A 9.9 Vapor Pressure N/A

9.10 Specific Gravity 1.11±0.04 g/ml

Max 1000 cPs at 20°C 9.11 Viscosity

9.12 Log Kow N/A 9.13 Vapor Density N/A 9.14 Boiling N/A 9.15 Boiling point N/A

#### 10. Stability and Reactivity

10.1 Chemical Stability Chemically stable under normal conditions.

10.2 Conditions of Instability Avoid contact with strong oxidizing agent and long exposure to hot temperatures.

10.3 Toxic Products by

N/A Decomposition

10.4 Possibility of Toxic

**Chemical Production** N/A

during Reaction

## 11. Toxicological Information

11.1 Toxicity to Animals

Acute toxicity-oral, rats > 2,000 mg/kg

LD

Acute toxicity-dermal,

2,000 mg/kg rabbits LD

Eve irritation, rabbits Mild irritation Skin irritation, rabbit Almost no irritation

11.2 Chronic Effects N/A

11.3 Mutagenic and N/A

**Teratogenic Effects** 

N/A 11.4 Carcinogenic Effects 11.5 Oral toxicity N/A

11.6 Inhalation toxicity N/A 11.7 Skin toxicity N/A 12. Ecological Information

12.1 Elimination Information Test method: OECED 302B/ISO 9888/EEC 88302 C

Method of analysis DOC(Reduction degree of elimination: >70%)

**Evaluation** easy to eliminate

12.2 Behavior and Inhibition of degradation activity in activated sludge is not to be anticipated during

**Environmental Fate** correct introduction of low concentrations.

13. Disposal Consideration

Recycle if possible. 13.1 Waste Information

Dispose waste in accordance with federal and local regulations.

Incinerate by small quantities. 13.2 Waste Disposal Method

Ash from the incinerator must be treated by authorized handling companies.

Waste water including the product must be cleaned by appropriate method

13.3 Precautions for Waste

including

Disposal Bio-treatment method.

Dispose empty container used for the product after being cleaned thoroughly.

14. Transport Information

14.1 Provisions for Maritime

N/A

Transportation

14.2 Precautions for Maritime Check container tightly sealed.

**Transportation** 

Avoid shift, drop and damage of container.

14.3 Special Provisions by

Foreign Transport

N/A

Regulations

14.4 More information IATA (60th Edition 2019) is not regulated as a hazardous material

15. Other Regulatory Information

15.1 Regulations by the

**Industrial Health and Safety** N/A

Law

15.2 Regulations by the

Chemical Management Law

N/A

15.3 Regulations by Foreign

Countries' Laws

N/A

16. Other Information

16.1 Information Contact Plant Office at TriStar Technical Company

**Notice to Reader** 

TRISTAR TECHNICAL COMPANY has no responsibility for injuries caused by use of this material if user did not follow stipulated items of this MSDS.

In addition, TRISTAR TECHNICAL COMPANY has no responsibility for injuries caused by abnormal use of this material.