

# Tristel Multi-Shot

## Working Solution Safety Data Sheet

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### 1. Identification

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**Product Name:** **Tristel Multi-Shot – Working solution**

**Product Code:** **TMS**

Type of product: Sporidical disinfectant for medical devices

Manufacturer: Tristel Solutions Limited  
Lynx Business Park  
Fordham Road  
Snailwell  
Cambs, CB8 7NY, United Kingdom

Telephone Number: +44 (0) 1638 721500  
+44 (0) 7798 805692 (Out of hours contact)

Fax Number: +44 (0) 1638 721911

Email: healthandsafety@tristel.com

Chemical type: Mild Oxidising Solution

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### 2. Hazards

#### identification:

Chlorine dioxide generator  
WEL - 0.84 mg/m<sup>3</sup> short term, 15 minute reference period  
- 0.28 mg/m<sup>3</sup> long term, 8 hour TWA reference period

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### 3. Composition:

Ingredients	CAS No	EINECS No	Wt/Vol %	Symbol
Chlorine dioxide in aqueous solution	10049-04-4	233-162-8	0.03-0.038	ClO <sub>2</sub>
Water				H <sub>2</sub> O

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### 4. First aid measures:

Inhalation: Non-toxic

Eye contact: Rinse eyes with water

Skin contact: Wash affected area with water

Ingestion: Do not induce vomiting. Give milk or water to drink  
Seek medical advice where necessary

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### 5. Fire fighting measures:

Non flammable

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### 6. Accidental release measures:

Environmental precautions: Environmental precautions required but product is biodegradable under OECD conditions operational 6/1995

Clean up method: Flush to drain with water or soak up onto inert material and dispose of with clinical waste

Clothing for disposal: Wear appropriate gloves and apron

This document conforms with the Regulations of REACH, 2007

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### **7. Handling and storage:**

Handling guidelines:	Safe handling in accordance with label instructions Not to be mixed with other chemicals Keep from children
Storage guidelines:	Store out of direct sunlight Shelf life determined by Tristel Efficacy Test Kit

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### **8. Exposure controls/personal protection:**

Personal protection:	Avoid eye contact and prolonged skin contact Gloves and apron recommended
Skin contact:	Low risk
Eye contact:	Low risk
Inhalation:	Low risk
Ingestion:	Low risk, substantial ingestion may cause discomfort to mouth and digestive tissues

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### **9. Physical and chemical properties:**

Physical state:	Liquid
Appearance and odour:	Light yellow with mild odour
Evaporation rate:	As water
Boiling point:	As water
Freezing point:	As water
% Volatile (by weight):	Not known
Solubility in water (20°C):	Soluble
pH:	5.0 – 5.5
Specific gravity	1.005 @ 20°C

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with the Regulations of  
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### 10. Stability and reactivity:

Decomposes to simple salt solution

Hazardous decomposition products: None under normal use

Chlorine donors and oxygen produced if heated

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### 11. Toxicological information:

Acute Oral LD50	>5000 mg/kg
Irritation to skin	Negative
Irritation to eyes	Negative
Sensitisation	Negative

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**12. Ecological information:** Presents no known hazards to the environment

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### 13. Disposal considerations:

Packaging:	Can be disposed of as normal waste in accordance with local authority regulations
Contaminated packaging:	May be disposed of safely under normal conditions in accordance with local authority regulations
Product:	Solution to be disposed of in accordance with spillage instructions as explained in accidental release measures

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**14. Transport information:** Not applicable

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### 15. Regulatory information:

Not a licensed medicine

Approved under EEC 93/42 and the 2007/47 amendments thereto for contact with medical devices

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### 16. Other information:

Safety phrases:

(2) Keep out of reach of children

(24/25) Avoid contact with skin and eyes

(50) Do not mix with other chemicals

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with the Regulations of  
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# Tristel Multi-Shot Activator & Base Safety Data Sheet

<b>1. Identification</b> <b>Product Name:</b> Tristel Multi-Shot - Activator <b>Chemical Type:</b> Sodium salt solution	<b>1. Identification</b> <b>Product Name:</b> Tristel Multi-Shot – Base <b>Chemical Type:</b> Organic acid blend
<b>2. Hazards Identification:</b> No specific hazards Contact with acids liberates chlorine dioxide	<b>2. Hazards Identification:</b> No specific hazards
<b>3. Composition/information on ingredients:</b> <b>Major ingredients:</b> 2.7% Sodium Chlorite Solution in demineralised water	<b>3. Composition/information on ingredients:</b> <b>Major ingredients:</b> 0.09% solution of Citric Acid <0.01% Boric Acid <0.01% Sorbic Acid In demineralised water
<b>4. First-aid measures:</b> Inhalation: Non-toxic Eye contact: Rinse eyes with water Skin contact: Wash affected area with water Ingestion: Do not induce vomiting give milk or water to drink Seek medical advice where necessary	<b>First-aid measures:</b> Inhalation: Non-toxic Eye contact: Rinse eyes with water Skin contact: Wash affected area with water Ingestion: Do not induce vomiting give milk or water to drink Seek medical advice where necessary
<b>5. Fire fighting measures:</b> Non flammable	<b>5. Fire fighting measures:</b> Non flammable
<b>6. Accidental release measures:</b> Environmental Precautions: Environmental precautions required but product is biodegradable under OECD conditions operational 6/1995 Clean up method: Flush to drain with water or soak up onto inert material and dispose of with clinical waste Clothing for disposal: Wear appropriate gloves and apron	<b>6. Accidental release measures:</b> Environmental Precautions: Environmental precautions required but product is biodegradable under OECD conditions operational 6/1995 Clean up method: Flush to drain with water or soak up onto inert material and dispose of with clinical waste Clothing for disposal: Wear appropriate gloves and apron This document conforms with the Regulations of REACH, 2007

# Tristel Multi-Shot

## Activator & Base Safety Data Sheet

<b>Product Name:</b> Tristel Multi-Shot - Activator	<b>Product Name:</b> Tristel Multi-Shot – Base
<b>7. Handling and storage:</b> Handling guidelines: Safe handling in accordance with label instructions  Not to be mixed with other chemicals  Keep from children  Storage guidelines: Store out of direct sunlight Two year shelf life – see product for expiry date	<b>7. Handling and storage:</b> Handling guidelines: Safe handling in accordance with label instructions  Not to be mixed with other chemicals  Keep from children  Storage guidelines: Store out of direct sunlight Two year shelf life – see product for expiry date
<b>8. Exposure controls/personal protection:</b> Personal protection: Avoid eye contact and prolonged skin contact  Gloves and apron recommended  Skin contact: Low risk  Eye contact: Low risk  Inhalation: Low risk  Ingestion: Low risk, substantial ingestion may cause discomfort to mouth and digestive tissues	<b>8. Exposure controls/personal protection:</b> Personal protection: Avoid eye contact and prolonged skin contact  Gloves and apron recommended  Skin contact: Low risk  Eye contact: Low risk  Inhalation: Low risk  Ingestion: Low risk, substantial ingestion may cause discomfort to mouth and digestive tissues
<b>9. Physical and chemical Properties:</b> Physical state: Liquid  Appearance and odour: Clear colourless solution, no odour  Evaporation rate: As water  Boiling point: As water  Freezing point: As water  % Volatile (by weight): Not known	<b>9. Physical and chemical Properties:</b> Physical state: Liquid  Appearance and odour: Pale blue solution, no odour  Evaporation rate: As water  Boiling point: As water  Freezing point: As water  % Volatile (by weight): Not known  This document conforms with the Regulations of REACH, 2007

## Tristel Multi-Shot Activator & Base Safety Data Sheet

<b>Product Name:</b> Tristel Multi-Shot - Activator	<b>Product Name:</b> Tristel Multi-Shot – Base
<b>Physical and chemical Properties continued:</b>  Solubility in water (20° C) Soluble  pH: 11.5 - 12.5 Specific gravity: 1.025 @ 20° C	<b>Physical and chemical Properties continued:</b>  Solubility in water (20° C) Soluble  pH: 5.0 – 6.0 Specific gravity: 1.000 @ 20° C
<b>10. Stability and reactivity:</b>  No decomposition if stored and used as directed  Hazardous decomposition products: None under normal use  Chlorine donors and oxygen produced if heated	<b>10. Stability and reactivity:</b>  No decomposition if stored and used as directed  Hazardous decomposition products: None under normal use  Not compatible with alkaline substance and chlorine donors
<b>11. Toxicological information:</b> <b>Sodium Chlorite</b> Acute oral LD50: >4000 mg/kg  Irritation to skin: Minimally irritating  Irritation to eyes: Mild irritant	<b>11. Toxicological information:</b> <b>Citric Acid</b> Acute oral LD50: >11750 mg/kg  Irritation to skin: Mild irritant under prolonged contact  Irritation to eyes: Irritant
<b>12. Ecological information:</b>  No known adverse effects from normal use	<b>12. Ecological information:</b>  No known adverse effects from normal use
<b>13. Disposal considerations:</b>  Packaging: Can be disposed of as normal waste in accordance with local authority regulations  Contaminated packaging: May be disposed of safely under normal conditions in accordance with local authority regulations  Product: Solution to be disposed of in accordance with spillage instructions as explained in accidental release measures	<b>13. Disposal considerations:</b>  Packaging: Can be disposed of as normal waste in accordance with local authority regulations  Contaminated packaging: May be disposed of safely under normal conditions in accordance with local authority regulations  Product: Solution to be disposed of in accordance with spillage instructions as explained in accidental release measures  This document conforms with the Regulations of REACH, 2007

