

# Tristel Multi-Shot Working Solution Safety Data Sheet

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

Revision Number  
TMS/SDS/005  
Publication Date  
16.7.07

**Product Code:** TMS

Type of product: Sterilising solution for medical, dental and veterinary instruments

**Manufacturer:** Tristel Solutions Limited  
Lynx Business Park  
Fordham Road  
Snailwell  
Cambs CB8 7NY

**Telephone Number:** +44 (0) 1638 721500

**Fax Number:** +44 (0) 1638 721911

**Emergency Number:** +44 (0) 7798 805692 (out of business hours)

**Chemical type:** Mild Oxidising Solution

## Composition:

Ingredients	CAS No	EINECS No	Wt/Vol %	Symbol
Chlorine dioxide in aqueous solution Water	10049-04-4	233-162-8	0.0175-0.038	Cl <sub>2</sub> H <sub>2</sub> O

**Hazards identification:** Chlorine dioxide generator  
(OES of 0.3ppm short term; 0.1ppm long term)

## 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

**Fire fighting measures:** Non flammable

## 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 Regulation 6 of the Chemical (Hazard Information and Packaging Supply) Regulations 2002 (CHIP3)

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## Handling and storage:

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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

## Exposure controls/personal protection:

Personal protection: Avoid eye contact and prolonged skin contact  
Gloves and apron recommended

Skin contact: Low risk  
No known hazard

Eye contact: Low risk  
No known hazard

Inhalation: Low risk

Ingestion: Low risk, substantial ingestion may cause discomfort to mouth  
and digestive tissues

## Physical and chemical properties:

Physical state: Liquid

Appearance and odour: Light yellow with mild odour

Evaporation rate: As water

Boiling point: 101 degrees centigrade

Freezing point: As water

% Volatile (by weight): Not known

Solubility in water (20°C): Soluble

pH: 6.0 approximately

Specific gravity: 1.005 @ 20°C

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with Regulation 6  
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## 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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## Toxicological information:

LD50 (oral, rat)	>5,000 mg/kg
Irritation to skin (rabbit)	Negative
Irritation to eyes (rabbit)	Negative
Sensitisation (guinea pig)	Negative

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

## 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

**Transport information:** No special conditions apply, non hazardous

## Regulatory information:

Not a licensed medicine

Approved under EEC 93/42 for contact with medical instruments

## Other information:

Safety phrases:

(2) Keep out of reach of children

(50) Do not mix with other chemicals

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with Regulation 6  
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Regulations 2002 (CHIP3)

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

Product Name: <b>Tristel Multi-Shot - Activator</b>		Product Name: <b>Tristel Multi-Shot – Base</b>		Revision Number TMS/SDS/005 Publication Date 16.7.07
<b>Chemical Type:</b>	Sodium salt solution	<b>Chemical Type:</b>	Organic acid blend	
<b>Composition/information on ingredients:</b>		<b>Composition/information on ingredients:</b>		
<b>Major ingredients:</b>	2.7% Sodium chlorite solution in de-mineralised water	<b>Major ingredients:</b>	0.08% solution of citric acid, with preservatives and corrosion inhibitors in de-mineralised water	
<b>Hazards Identification:</b>	No specific hazards Contact with acids liberates chlorine dioxide	<b>Hazards Identification:</b>	No specific hazards	
<b>First-aid measures:</b>		<b>First-aid measures:</b>		
Inhalation:	Non-toxic	Inhalation:	Non-toxic	
Eye contact:	Rinse eyes with water	Eye contact:	Rinse eyes with water	
Skin contact:	Wash affected area 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	Ingestion:	Do not induce vomiting give milk or water to drink  Seek medical advice where necessary	
<b>Fire fighting measures:</b>		<b>Fire fighting measures:</b>		
	Non flammable		Non flammable	
<b>Accidental release measures:</b>		<b>Accidental release measures:</b>		
Environmental Precautions:	Environmental precautions required but product is biodegradable under OECD conditions operational 6/1995	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	Clean up method:	Flush to drain with water or soak up onto inert material and dispose of with clinical waste	This document conforms with Regulation 6 of the Chemical (Hazard Information and Packaging Supply Regulations 2002 (CHIP3))
Clothing for disposal:	Wear appropriate gloves and apron	Clothing for disposal:	Wear appropriate gloves and apron	

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Product Name: <b>Tristel Multi-Shot - Activator</b>		Product Name: <b>Tristel Multi-Shot – Base</b>		Revision Number TMS/SDS/005 Publication Date 16.7.07
<b>Handling and storage:</b>		<b>Handling and storage:</b>		
Handling guidelines:	Safe handling in accordance with label instructions	Handling guidelines:	Safe handling in accordance with label instructions	
	Not to be mixed with other chemicals		Not to be mixed with other chemicals	
	Keep from children		Keep from children	
Storage guidelines:	Store out of direct sunlight	Storage guidelines:	Store out of direct sunlight	
<b>Exposure controls/personal protection:</b>		<b>Exposure controls/personal protection:</b>		
Personal protection:	Avoid eye contact and prolonged skin contact	Personal protection:	Avoid eye contact and prolonged skin contact	
	Gloves and apron recommended		Gloves and apron recommended	
Skin contact:	Low risk	Skin contact:	Low risk	
	No known hazard		No known hazard	
Eye contact:	Low risk	Eye contact:	Low risk	
	No known hazard		No known hazard	
Inhalation:	Low risk	Inhalation:	Low risk	
Ingestion:	Low risk, substantial ingestion may cause discomfort to mouth and digestive tissues	Ingestion:	Low risk, substantial ingestion may cause discomfort to mouth and digestive tissues	
<b>Physical and chemical Properties:</b>		<b>Physical and chemical Properties:</b>		
Physical state:	Liquid	Physical state:	Liquid	
Appearance and odour:	Clear colourless solution, no odour	Appearance and odour:	Pale blue, no odour	
Evaporation rate:	As water	Evaporation rate:	As water	
Boiling point:	101 degrees centigrade	Boiling point:	102 degrees centigrade	
Freezing point:	As water	Freezing point:	As water	
% Volatile (by weight):	Not known	% Volatile (by weight):	Not known	
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<b>Product Name:</b> Tristel Multi-Shot - Activator	<b>Product Name:</b> Tristel Multi-Shot – Base	Revision Number TMS/SDS/005 Publication Date 16.7.07
<b>Physical and chemical Properties continued:</b>	<b>Physical and chemical Properties continued:</b>	
Solubility in water (20° C) Soluble	Solubility in water (20° C) Soluble	
pH: 11.70 approximately	pH: 5.97 approximately	
Specific gravity: 1.023 @ 20° C	Specific gravity: 1.002 @ 20° C	
<b>Stability and reactivity:</b>	<b>Stability and reactivity:</b>	
No decomposition if stored and used as directed	No decomposition if stored and used as directed	
Hazardous decomposition products: None under normal use	Hazardous decomposition products: None under normal use	
Chlorine donors and oxygen produced if heated	Not compatible with alkaline substance and chlorine donors	
<b>Toxicological information:</b>	<b>Toxicological information:</b>	
Animal studies: No known risks to skin exposure	Acute oral LD50: >4000 mg/kg	
Human studies: No known risks to skin exposure	Animal studies: No known risks to skin exposure	
	Human studies: No known risks to skin exposure	
<b>Ecological information:</b>	<b>Ecological information:</b>	
No known adverse effects from normal use	No known adverse effects from normal use	
<b>Disposal considerations:</b>	<b>Disposal considerations:</b>	
Packaging: Can be disposed of as normal waste in accordance with local authority regulations	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	Contaminated packaging: May be disposed of safely under normal conditions in accordance with local authority regulations	This document conforms with Regulation 6 of the Chemical (Hazard Information and Packaging Supply Regulations 2002 (CHIP3)
Product: Solution to be disposed of in accordance with spillage instructions as explained in accidental release measures	Product: Solution to be disposed of in accordance with spillage instructions as explained in accidental release measures	

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<b>Product Name:</b> Tristel Multi-Shot - Activator	<b>Product Name:</b> Tristel Multi-Shot - Base	Revision Number TMS/SDS/005 Publication Date 16.7.07
<b>Transport information:</b>  No special conditions apply, non hazardous	<b>Transport information:</b>  No special conditions apply, non hazardous	
<b>Regulatory information:</b>  Not a licensed medicine  Approved under EEC 93/42 for contact with medical instruments	<b>Regulatory information:</b>  Not a licensed medicine  Approved under EEC 93/42 for contact with medical instruments	
<b>Other information:</b>  Safety phrases  (2) Keep out of reach of children  (24/25) Avoid contact with skin and eyes  (50) Do not mix with other chemicals	<b>Other information:</b>  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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