

Tristel Fuse for Instruments

Working Solution Safety Data Sheet

Product Name:	Tristel Fuse – Working Solution	Revision Number TRI/FUS/SDS/005
Product Code:	FUS/INS	Publication Date 16.7.07
Type of product:	High-level disinfecting and sporicidal 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	10049-04-4	233-162-8	0.01-0.0125	Cl ₂
Water				H ₂ 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 Chemicals (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
Single-Use solution

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: 5.5 approximately

Specific gravity: 1.005 @ 20°C

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with Regulation 6 of the
Chemicals (Hazard
Information and Packaging
Supply) Regulations
2002 (CHIP3)

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Stability and reactivity:

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Decomposes to simple salt solution

Hazardous decomposition products: None under normal use

Chlorine donors and oxygen produced if heated

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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Tristel Fuse for Instruments

Activator & Base Safety Data Sheet

Product Name: Tristel Fuse – Activator Solution		Product Name: Tristel Fuse – Base Solution		Revision Number TRI/FUS/SDS/005 Publication Date 16.7.07
Chemical Type:	Sodium salt solution	Chemical Type:	Organic acid blend	
Composition/information on ingredients:		Composition/information on ingredients:		
Major ingredients:	8.5% (25%) Sodium chlorite solution in de-mineralised water	Major ingredients:	5% solution of citric acid, with preservatives and corrosion inhibitors in de-mineralised water	
Hazards Identification:	No specific hazards Contact with acids liberates chlorine dioxide	Hazards Identification:	No specific hazards	
First-aid measures:		First-aid measures:		
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	
Fire fighting measures:		Fire fighting measures:		
	Non flammable		Non flammable	
Accidental release measures:		Accidental release measures:		
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 Chemicals (Hazard Information and Packaging Supply) Regulations 2002 (CHIP3)
Clothing for disposal:	Wear appropriate gloves and apron	Clothing for disposal:	Wear appropriate gloves and apron	

Tristel Fuse for Instruments

Activator & Base Safety Data Sheet

Product Name: Tristel Fuse – Activator Solution		Product Name: Tristel Fuse – Base Solution		Revision Number TRI/FUS/SDS/005 Publication Date 16.7.07
Handling and storage:		Handling and storage:		
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 Shelf life – two years – see product for expiry date	Storage guidelines:	Store out of direct sunlight Shelf life – two years – see product for expiry date	
Exposure controls/personal protection:		Exposure controls/personal protection:		
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 No known hazard	Skin contact:	Low risk No known hazard	
Eye contact:	Low risk No known hazard	Eye contact:	Low risk 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	
Physical and chemical Properties:		Physical and chemical Properties:		
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	

This document conforms with Regulation 6 of the Chemicals (Hazard Information and Packaging Supply) Regulations 2002 (CHIP2)

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Activator & Base Safety Data Sheet

Product Name: Tristel Fuse – Activator Solution	Product Name: Tristel Fuse – Base Solution	Revision Number TRI/FUS/SDS/005 Publication Date 16.7.07
Physical and chemical Properties continued:	Physical and chemical Properties continued:	
Freezing point: As water	Freezing point: As water	
% Volatile (by weight): Not known	% Volatile (by weight): Not known	
Solubility in water (20° C): Soluble	Solubility in water (20° C): Soluble	
pH: 11.5 - 13 approximately	pH: 1.5 – 3.5 approximately	
Specific gravity: 1.060 @ 20° C	Specific gravity: 1.075 @ 20° C	
Stability and reactivity:	Stability and reactivity:	
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	
Toxicological information:	Toxicological information:	
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	
Ecological information:	Ecological information:	
No known adverse effects from normal use	No known adverse effects from normal use	
Disposal considerations:	Disposal considerations:	
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	This document conforms with Regulation 6 of the Chemicals (Hazard Information and Packaging Supply) Regulations 2002 (CHIP3)
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	

Tristel Fuse for Instruments

Activator & Base Safety Data Sheet

Product Name: Tristel Fuse –
Activator Solution

Disposal considerations continued:

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
- (24/25) Avoid contact with skin and eyes
- (50) Do not mix with other chemicals

Product Name: Tristel Fuse –
Base Solution

Disposal considerations continued:

Product: Solution to be disposed of in accordance with spillage instructions as explained in accidental release measures

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No special conditions apply, non hazardous

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