Tristel Fuse for Instruments Fragranced
Working Solution Safety Data Sheet

1. Identification

Product Name: Tristel Fuse for Instruments Fragranced – Working solution

Product Code: FUS/INS/FRA

Type of product: Sporicidal disinfectant for medical, dental and veterinary instruments

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

2. Hazards identification:

Chlorine dioxide generator

WEL - 0.84 mg/m^{-3} short term, 15 minute reference period

- 0.28 mg/m^{-3} long term, 8 hour TWA reference period

3. Composition:

Ingredients	CAS No	EINECS No	Wt/Vol %	Symbol
Chlorine dioxide in aqueous solution	10049-04-4	233-162-8	0.01-0.0125	ClO_2
Water				H_2O

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

5. Fire fighting measures:

Non flammable

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

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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
	Single-Use solution

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

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:	2.5 - 5.5
Specific gravity	1.005 @ 20°C

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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

11. Toxicological information:

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

12. Ecological information:

Presents no known hazards to the environment

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

14. Transport information:

Not applicable

15. Regulatory information:

Not a licensed medicine

Approved under EEC 93/42 for contact with medical devices

16. Other information:

Safety phrases:

(2) Keep out of reach of children

(24/25) Avoid contact with eyes and skin

(50) Do not mix with other chemicals

This document conforms with the Regulations of REACH, 2007

Tristel Fuse for Instruments Fragranced
Activated Concentrate Safety Data Sheet

1. Identification

Product Name: **Tristel Fuse for Instruments – Activated Concentrate**

Notice: Under normal conditions the concentrate is immediately diluted into the required volume of water as per user instructions supplied with the product. Therefore contact with the activated concentrate prior to dilution is unlikely to occur. However, the information below should be used in the event of a spill of the activated concentrate direct from the sachet.

2. Hazards identification:

Chlorine dioxide generator

WEL - 0.84 mg/m^{-3} short term, 15 minute reference period

- 0.28 mg/m^{-3} long term, 8 hour TWA reference period

3. Composition:

Ingredients	CAS No	EINECS No	Wt/Vol %	Symbol
Chlorine dioxide in aqueous solution	10049-04-4	233-162-8	0.58 – 0.62%	ClO_2

4. First aid measures:

Inhalation:	Move subject to fresh air
Eye contact:	Rinse eyes immediately with copious quantities of water
Skin contact:	Wash affected area with water
Ingestion:	Do not induce vomiting. Give plenty of water to drink Seek medical advice where necessary

5. Fire fighting measures:

Non flammable

6. Accidental release measures:

Environmental precautions:	Environmental precautions required but product is biodegradable under OECD conditions operational 6/1995
Clean up method:	Dilute with water and flush to drain or soak up onto inert material and dispose of with clinical waste
Clothing for disposal:	Wear appropriate gloves and apron

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7. Handling and storage:

Handling guidelines:	Safe handling in accordance with label instructions; activated concentrate should be diluted in water immediately after opening sachet Not to be mixed with other chemicals Keep away from children
Storage guidelines:	Do not store activated concentrate

8. Exposure controls/personal protection:

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

9. Physical and chemical properties:

Physical state:	Liquid
Appearance and odour:	Straw 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:	4.5 approximately

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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

11. Toxicological information:

Acute Oral LD50	›3000 mg/kg
Irritation to skin	Negative
Irritation to eyes	Minimal Irritation
Sensitisation	Negative

12. Ecological information:

Presents no known hazards to the environment

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

14. Transport information:

Not applicable

15. Regulatory information:

Not a licensed medicine

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

This document conforms with the Regulations of REACH, 2007

Tristel Fuse for Instruments Fragranced
Activator & Base Safety Data Sheet

1. Identification		1. Identification	
Product Name:	Tristel Fuse for Instruments – Activator Solution	Product Name:	Tristel Fuse for Instruments – Base Solution
Chemical Type:	Sodium salt solution	Chemical Type:	Organic acid blend
2. Hazards Identification:	No specific hazards Contact with acids liberates chlorine dioxide	2. Hazards Identification:	No specific hazards
3. Composition/information on ingredients:		3. Composition/information on ingredients:	
Major ingredients:	2.1% Sodium Chlorite solution in de-mineralised water	Major ingredients:	5% Citric Acid, 0.01% Sorbic Acid 0.01% Boric Acid 0.2% Citrus Fragrance in de-mineralised water
4. First-aid measures:		4. 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
5. Fire fighting measures:		5. Fire fighting measures:	
Non flammable		Non flammable	
6. Accidental release measures:		6. 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
Clothing for disposal:	Wear appropriate gloves and apron	Clothing for disposal:	Wear appropriate gloves and apron

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Product Name:	Tristel Fuse for Instruments – Activator Solution	Product Name:	Tristel Fuse for Instruments – Base Solution
7. Handling and storage:		**7. Handling and storage:**	
Handling guidelines:	Safe handling in accordance with label instructions Not to be mixed with other chemicals Keep from children	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 Store at a temperature of between 10 and 35°C Shelf life – two years – see product for expiry date	Storage guidelines:	Store out of direct sunlight Store at a temperature of between 10 and 35°C Shelf life – two years – see product for expiry date
8. Exposure controls/personal protection:		**8. Exposure controls/personal protection:**	
Personal protection:	Avoid eye contact and prolonged skin contact Gloves and apron recommended	Personal protection:	Avoid eye contact and prolonged skin contact Gloves and apron recommended
Skin contact:	Low risk	Skin contact:	Low risk
Eye contact:	Low risk	Eye contact:	Low risk
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
9. Physical and chemical Properties:		**9. 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:	As water	Boiling point:	As water

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Product Name:	Tristel Fuse for Instruments – Activator Solution	Product Name:	Tristel Fuse for Instruments – Base Solution
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	pH:	1.5 – 3.5
Specific gravity:	1.025 @ 20° C	Specific gravity:	1.020 @ 20° C
10. Stability and reactivity:		**10. 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	
11. Toxicological information:		**11. Toxicological information: Citric Acid**	
Acute Oral LD50:	>4000 mg/kg	Acute oral LD50:	>11750 mg/kg
Irritation to skin:	Minimally Irritating	Irritation to Skin:	Mild irritant under prolonged contact
Irritation to eyes:	Mild irritant	Irritation to Eyes:	Irritant
12. Ecological information:		**12. Ecological information:**	
No known adverse effects from normal use		No known adverse effects from normal use	
13. Disposal considerations:		**13. 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
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

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Product Name: Tristel Fuse for Instruments – Activator Solution	**Product Name:** Tristel Fuse for Instruments – Base Solution
Disposal considerations continued:	**Disposal considerations continued:**
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
14. Transport information:	**14. Transport information:**
Not hazardous for transport	Not hazardous for transport
15. Regulatory information:	**15. Regulatory information:**
Not a licensed medicine	Not a licensed medicine
16. Other information:	**16. Other information:**
Safety phrases	Safety phrases
(2) Keep out of reach of children	(2) Keep out of reach of children
(24/25) Avoid contact with skin and eyes	(24/25) Avoid contact with skin and eyes
(50) Do not mix with other chemicals	(50) Do not mix with other chemicals
	This document conforms with the Regulations of REACH, 2007

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