

Safety Data Sheet

Prepared in accordance with
OSHA Hazard Communication Standard (29 CFR 1910.1200)

Tristel



LABORATORIES, INC.

Section 1: Identification

1.1: Product Name	Tristel ULT Base
1.2: Description	Tristel ULT Base for use with Tristel ULT Activator
1.3: Intended Use	Disinfectant. For professional use only.
1.4: Restrictions of Use	Uses other than those recommended
1.5: Manufactured by/for	Tristel Solutions Limited, Unit 1B, Lynx Business Park, Fordham Road, Snailwell, Newmarket, Cambridgeshire, CB8 7NY, United Kingdom
1.6: Distributed in the USA by	Parker Laboratories Inc., 286 Eldridge Road, Fairfield, New Jersey 07004, United States
1.7: In Case of Emergency	1-800-631-8888

Section 2: Hazard(s) Identification

2.1: Product Hazard Category	This mixture is NOT considered hazardous according to the OSHA Hazard Communication Standard (29 CFR 1910.1200)
2.2: Label Content	Not a hazardous mixture
2.3 Other Hazards	Hazards Not Otherwise Classified (HNOC): None known

Section 3: Composition/Information on Ingredients

3.1: Substance	Not applicable	
3.2: Mixture		
Component	CAS Number	Concentration
1-Decanamine, N, N - Dimethyl-N-Oxide	2605-79-0	<1%
Citric Acid Monohydrate	5949-29-1	1-10%
Other inert ingredients	Withheld	89-99%
The exact composition/components have been withheld due to trade secret.		

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Section 4: First Aid Measures

4.1: Description of First Aid Measures	Due to the composition and type of the substances present in the product, no particular warnings are necessary.
4.1.1: General Advice	Seek medical attention/advice if you feel unwell.
4.1.2: Eye Contact	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.
4.1.3: Inhalation	Remove person to fresh air and keep comfortable for breathing.
4.1.4: Skin Contact	Rinse skin immediately with plenty of water for 15-20 minutes
4.1.5: Ingestion	If accidentally ingested, seek immediate medical attention. Rinse mouth. Do NOT induce vomiting unless told to do so by the poison centre or doctor. Do NOT give anything by mouth to an unconscious person.
4.2: Most important health effects, both acute and delayed	Irritation to eyes and skin may be possible
4.3: Indication of immediate medical attention and special treatment	In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

Section 5: Fire-Fighting Measures

5.1: Suitable Extinguishing Media	Use suitable media for the surrounding fire.
5.2: Specific hazard arising from the product	Toxic fumes can be emitted during combustion.
5.3: Special protective equipment for fire fighters	According to the size of the fire, it may be necessary to use protective suits against the heat, self-contained breathing equipment, gloves, protective goggles or facemasks.

Section 6: Accidental Release Measures

6.1: Personal precautions, protective equipment and emergency procedures	Use protective gloves/clothing/eye wear.
6.2: Environmental precautions	Product is not classified as environmentally hazardous, avoid spillage as much as possible.

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6.3: Methods and materials for containment and cleaning up	Contaminated area should be cleaned up with absorbent materials such as dry earth or sand and transferred to a sealable labelled container. Dispose of contaminants in accordance with existing federal state, provincial and or local environmental control laws.
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Section 7: Handling and Storage

7.1: Precautions for safe handling	This product does not require special handling measures, the following general measures are recommended.
7.2: Protective measures	Use appropriate personal protective equipment as needed including, but not limited to, long sleeve shirts, long pants, waterproof gloves, closed toe shoes and protective eye wear. Never use pressure to empty the containers. No smoking, eating or drinking allowed when using this product. Wash hands before breaks and at the end of work shift. Avoid contact with skin and eyes. Containers, even those that have been emptied will retain product residues or vapours. Always obey hazard warnings and handle empty containers as if they were full. Follow legislation in occupational health and safety. Always keep the product in original containers.
7.3: Conditions for safe storage	Store in a cool, well-ventilated area. Keep containers tightly closed. Store away from children. In case of spillage, flood areas with large amounts of water.

Section 8: Exposure Controls/Personal Protection

8.1: Occupational Exposure Limits	ACGIH (TLV)	NIOSH (REL)	OSHA (PEL)
	No substances listed in section 3.2 have established exposure limits.	No substances listed in section 3.2 have established exposure limits.	No substances listed in section 3.2 have established exposure limits.
8.2: Exposure Controls	Protective Measures		Appropriate Engineering Controls
	Provide adequate ventilation, which can be achieved by using local exhaust ventilation (LEV) and a good general exhaust system. If the recommended technical measures are observed, no individual protective equipment is required.		General industrial hygiene practices.
8.3: Personal Protection	Use appropriate personal protective equipment for surrounding hazards. No specific protective equipment is required for this mixture.		
8.3.1: Eye/Face Protection	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH.		

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8.3.2: Skin Protection	Wear protective gloves. Use proper glove removal technique to avoid skin contact.
8.3.3: Body Protection	Choose body protection appropriate to the concentration and exposure and to the workplace environment.
8.3.4: Respiratory Protection	Not required. In case of insufficient ventilation, wear suitable respiratory equipment. NIOSH approved, air purifying organic vapour respirator.
8.3.5: Hygiene Measures	Wash hands, forearms thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Section 9: Physical and Chemical Properties

Appearance:	
Physical State	Blue liquid
Odor	Barely perceptible odor
Odor threshold	No information available
Other Properties:	
pH	2.5-3.5 (1% solution)
Melting point/freezing point	No information available
Initial boiling point and boiling point range	No information available
Flash point	No information available
Evaporation rate	No information available
Flammability (solid, gas)	Non-flammable
Upper/lower flammability or explosive limits	No information available
Vapor pressure	No information available
Vapor density	No information available
Relative density	1.022 +/- 0.1g/ml (25°C)
Solubilities	No information available

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Partition coefficient (n-octanol/water)	No information available
Auto-ignition temperature	No information available
Decomposition temperature	No information available
Viscosity (kinematic)	1.25 cP at 21°C, 0.85 cP at 40°C

Section 10: Stability and Reactivity

10.1: Reactivity	The product does not present hazards by its reactivity.
10.2: Chemical Stability	Stable under the recommended storage conditions.
10.3: Possibility of hazardous reactions	Hazardous reactions will not occur under normal transport or storage conditions.
10.4: Conditions to avoid	Avoid contact with bases, strong oxidizing agents, ammonia, aliphatic amines, sulfides, metal nitrates, alkali carbonates, alkalis, isocyanates, alloys of Al, Cu and Zn, potassium tartrate, acetates, bicarbonates, polyvinyl alcohol. Tristel ULT Base should not be exposed to direct sunlight and/or heat.
10.5: Incompatible materials	Bases and strong oxidizing agents.
10.6: Hazardous decomposition products	None known.

Section 11: Toxicological Information

Information on the likely routes of exposure: Dermal contact, eye contact, inhalation and ingestion.	
11.1: Potential acute health effects	
11.1.1: Eye contact	Possible eye irritation
11.1.2: Inhalation	Possible irritation of the respiratory tract.
11.1.3: Skin contact	Possible skin irritation.
11.1.4: Ingestion	None known.
11.2: Potential chronic health effects	
11.2.1: Short term exposure: Potential immediate effects	Mildly irritating to the eye and skin within first hour/24 hours, respectively.
11.2.2: Long term exposure: Potential delayed effects	Not available
11.2.3: Long term exposure: General	No known significant effects or critical hazards

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11.2.4: Long term exposure: Carcinogenicity		No known significant effects or critical hazards		
11.2.5: Long term exposure: Mutagenicity		No known significant effects or critical hazards		
11.2.6: Long term exposure: Teratogenicity		No known significant effects or critical hazards		
11.2.7: Long term exposure: Developmental effects		No known significant effects or critical hazards		
11.2.8: Long term exposure: Fertility effects		No known significant effects or critical hazards		
11.3: Information on toxicological effects				
11.3.1: Acute toxicity				
Route	Results	Classification		
Oral	>5,000mg/kg	No acute oral toxicity		
Inhalation (mist)	>5.24mg/l	No acute inhalation toxicity		
11.3.2: Irritation/Corrosion				
Route	Results	Classification		
Eye	The maximum average score of 22.0 was obtained 1 hour after treatment according to OCSPP 870.2400 and OECD 405 guidelines.	Mildly irritating		
Dermal	Primary Irritation Index (PII) = 0.3	Slightly irritating		
11.3.3: Sensitization	Not a skin sensitizer – OCSPP 870.2600/OECD 429			
11.4.1: Chronic toxicity	No data available			
11.4.2: Germ cell mutagenicity	No data available to indicate product or any components present greater than 0.1% are mutagenetic or genotoxic.			
11.4.3: Reproductive toxicity	No data available			
11.4.4: Specific target organ toxicity (single exposure)	Not classified			
11.4.5: Specific target organ toxicity (repeated exposure)	Not classified			
11.4.6: Aspiration hazard:	Not classified			
11.4.7: Carcinogenicity	IARC	ACGIH	NTP	OSHA
	No component of this product is present at levels greater than or equal to 0.1% is identified probable, possible or	No component of this product is present at levels greater than or equal to 0.1% is identified probable, possible or	No component of this product is present at levels greater than or equal to 0.1% is identified probable, possible or	No component of this product is present at levels greater than or equal to 0.1% is identified probable, possible or

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LABORATORIES, INC.

	confirmed carcinogen	confirmed carcinogen	confirmed carcinogen	confirmed carcinogen
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Section 12: Ecological Information

12.1: Ecotoxicity	Not environmentally hazardous.
12.2: Persistence and degradability	No data available.
12.3: Bioaccumulation	No bioaccumulation potential.
12.4: Mobility in soil	Readily absorbed into soil. Not classified as environmentally hazardous.
12.5: Other adverse effects	No data available.

Section 13: Disposal Considerations

13.1: Disposal Methods	To avoid waste, use all material in the container by application according to label directions. If waste cannot be avoided, offer remaining product to a waste disposal facility.
13.2: Container Handling	Non-refillable container. Do not reuse or refill container. Clean container promptly after emptying. Then send for recycling if available or dispose of in a sanitary landfill, or by incineration.

Section 14: Transport Information

Regulatory Information	UN Number	Proper shipping name	Classes	Packing Group	Label	Additional Information
DOT (US)	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not classified as a hazardous material
IMDG	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not classified as a hazardous material
IARA-DGR	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not classified as a hazardous material
IATA	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not classified as a hazardous material

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Section 15: Regulatory Information

15.1: US Federal Regulations	
SARA 311/312	None
SARA Title III Section 302 Extremely Hazardous Substances	None
SARA Title III Section 313 Toxic Chemicals	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, section 313.

Section 16: Other Information

Date SDS Prepared: 31 May 2023

Version 1.0

Disclaimer:

The information provided in this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for the safe handling, use, processing, storage, transportation, disposal and release and is not considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

The named supplier, nor any of its subsidiaries, assumes any liability for the accuracy or completeness of the information contained herein.

Safety Data Sheet

Prepared in accordance with
OSHA Hazard Communication Standard (29 CFR 1910.1200)

Tristel



LABORATORIES, INC.

Section 1: Identification

1.1: Product Name	Tristel ULT Activator
1.2: Description	Tristel ULT Activator for use with Tristel ULT Base
1.3: Intended Use	Disinfectant. For professional use only.
1.4: Restrictions of Use	Uses other than those recommended
1.5: Manufactured by/for	Tristel Solutions Limited, Unit 1B, Lynx Business Park, Fordham Road, Snailwell, Newmarket, Cambridgeshire, CB8 7NY, United Kingdom
1.6: Distributed in the USA by	Parker Laboratories Inc., 286 Eldridge Road, Fairfield, New Jersey 07004, United States
1.7: In Case of Emergency	1-800-631-8888

Section 2: Hazard(s) Identification

2.1: Product Hazard Category	This mixture is NOT considered hazardous according to the OSHA Hazard Communication Standard (29 CFR 1910.1200)
2.2: Label Content	Not a hazardous mixture
2.3 Other Hazards	Hazards Not Otherwise Classified (HNOC): None known

Section 3: Composition/Information on Ingredients

3.1: Substance	Not applicable	
3.2: Mixture		
Component	CAS Number	Concentration
1-Decanamine, N, N - Dimethyl-N-Oxide	2605-79-0	<1%
Sodium Chlorite	7758-19-2	<1%
Other inert ingredients	Withheld	98-100%
The exact composition/components have been withheld due to trade secret.		

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LABORATORIES, INC.

Section 4: First Aid Measures

4.1: Description of First Aid Measures	Due to the composition and type of the substances present in the product, no particular warnings are necessary.
4.1.1: General Advice	Seek medical attention/advice if you feel unwell.
4.1.2: Eye Contact	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.
4.1.3: Inhalation	Remove person to fresh air and keep comfortable for breathing.
4.1.4: Skin Contact	Rinse skin immediately with plenty of water for 15-20 minutes
4.1.5: Ingestion	If accidentally ingested, seek immediate medical attention. Rinse mouth. Do NOT induce vomiting unless told to do so by the poison centre or doctor. Do NOT give anything by mouth to an unconscious person.
4.2: Most important health effects, both acute and delayed	Irritation of the throat may be possible.
4.3: Indication of immediate medical attention and special treatment	In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

Section 5: Fire-Fighting Measures

5.1: Suitable Extinguishing Media	Use suitable media for the surrounding fire.
5.2: Specific hazard arising from the product	Toxic fumes can be emitted during combustion.
5.3: Special protective equipment for fire fighters	According to the size of the fire, it may be necessary to use protective suits against the heat, self-contained breathing equipment, gloves, protective goggles or facemasks.

Section 6: Accidental Release Measures

6.1: Personal precautions, protective equipment and emergency procedures	Use protective gloves/clothing/eye wear.
6.2: Environmental precautions	Product is not classified as environmentally hazardous, avoid spillage as much as possible.

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LABORATORIES, INC.

6.3: Methods and materials for containment and cleaning up	Contaminated area should be cleaned up with absorbent materials such as dry earth or sand and transferred to a sealable labelled container. Dispose of contaminants in accordance with existing federal state, provincial and or local environmental control laws.
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Section 7: Handling and Storage

7.1: Precautions for safe handling	This product does not require special handling measures, the following general measures are recommended.
7.2: Protective measures	Use appropriate personal protective equipment as needed including, but not limited to, long sleeve shirts, long pants, waterproof gloves, closed toe shoes and protective eye wear. Never use pressure to empty the containers. No smoking, eating or drinking allowed when using this product. Wash hands before breaks and at the end of work shift. Avoid contact with skin and eyes. Containers, even those that have been emptied will retain product residues or vapours. Always obey hazard warnings and handle empty containers as if they were full. Follow legislation in occupational health and safety. Always keep the product in original containers.
7.3: Conditions for safe storage	Store in a cool, well-ventilated area. Keep containers tightly closed. Store away from children. In case of spillage, flood areas with large amounts of water.

Section 8: Exposure Controls/Personal Protection

8.1: Occupational Exposure Limits	ACGIH (TLV)	NIOSH (REL)	OSHA (PEL)
	No substances listed in section 3.2 have established exposure limits.	No substances listed in section 3.2 have established exposure limits.	No substances listed in section 3.2 have established exposure limits.
8.2: Exposure Controls	Protective Measures		Appropriate Engineering Controls
	Provide adequate ventilation, which can be achieved by using local exhaust ventilation (LEV) and a good general exhaust system. If the recommended technical measures are observed, no individual protective equipment is required.		General industrial hygiene practices.
8.3: Personal Protection	Use appropriate personal protective equipment for surrounding hazards. No specific protective equipment is required for this mixture.		
8.3.1: Eye/Face Protection	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH.		

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Prepared in accordance with
OSHA Hazard Communication Standard (29 CFR 1910.1200)

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8.3.2: Skin Protection	Wear protective gloves. Use proper glove removal technique to avoid skin contact.
8.3.3: Body Protection	Choose body protection appropriate to the concentration and exposure and to the workplace environment.
8.3.4: Respiratory Protection	Not required. In case of insufficient ventilation, wear suitable respiratory equipment. NIOSH approved, air purifying organic vapour respirator.
8.3.5: Hygiene Measures	Wash hands, forearms thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Section 9: Physical and Chemical Properties

Appearance:	
Physical State	Colorless liquid
Odor	No information available
Odor threshold	No information available
Other Properties:	
pH	9.50 – 10.50 (1% solution)
Melting point/freezing point	No information available
Initial boiling point and boiling point range	No information available
Flash point	No information available
Evaporation rate	No information available
Flammability (solid, gas)	Non-flammable
Upper/lower flammability or explosive limits	No information available
Vapor pressure	No information available
Vapor density	No information available
Relative density	1.005 +/- 0.1g/ml (25°C)
Solubilities	No information available

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OSHA Hazard Communication Standard (29 CFR 1910.1200)

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LABORATORIES, INC.

Partition coefficient (n-octanol/water)	No information available
Auto-ignition temperature	No information available
Decomposition temperature	No information available
Viscosity (kinematic)	1.6 cP at 21°C, 1.13 cP at 40°C

Section 10: Stability and Reactivity

10.1: Reactivity	The product does not present hazards by its reactivity.
10.2: Chemical Stability	Stable under the recommended storage conditions.
10.3: Possibility of hazardous reactions	Hazardous reactions will not occur under normal transport or storage conditions.
10.4: Conditions to avoid	Avoid contact with reducing agents – nitrogen compounds (e.g. ammonia, urea, amines, isocyanurates, ammonium salts), acids and/or acidic compounds, organic compounds, combustible materials and cellulose. Tristel ULT Activator should not be exposed to direct sunlight and/or heat.
10.5: Incompatible materials	Monoammonium phosphate, reducing agents (iron powder) or household solvents.
10.6: Hazardous decomposition products	None known.

Section 11: Toxicological Information

Information on the likely routes of exposure: Dermal contact, eye contact, inhalation and ingestion.	
11.1: Potential acute health effects	
11.1.1: Eye contact	Possible eye irritation
11.1.2: Inhalation	Possible irritation of the respiratory tract.
11.1.3: Skin contact	Possible skin irritation.
11.1.4: Ingestion	None known.
11.2: Potential chronic health effects	
11.2.1: Short term exposure: Potential immediate effects	Not available
11.2.2: Long term exposure: Potential delayed effects	Not available
11.2.3: Long term exposure: General	No known significant effects or critical hazards

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Prepared in accordance with
 OSHA Hazard Communication Standard (29 CFR 1910.1200)

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LABORATORIES, INC.

11.2.4: Long term exposure: Carcinogenicity		No known significant effects or critical hazards		
11.2.5: Long term exposure: Mutagenicity		No known significant effects or critical hazards		
11.2.6: Long term exposure: Teratogenicity		No known significant effects or critical hazards		
11.2.7: Long term exposure: Developmental effects		No known significant effects or critical hazards		
11.2.8: Long term exposure: Fertility effects		No known significant effects or critical hazards		
11.3: Information on toxicological effects				
11.3.1: Acute toxicity				
Route	Results	Classification		
Oral	>2,000mg/kg	No acute oral toxicity		
Inhalation (mist)	>5.61mg/l	No acute inhalation toxicity		
11.3.2: Irritation/Corrosion				
Route	Results	Classification		
Eye	The maximum average score of 2.7 was obtained 1 hour after treatment according to OCSPP 870.2400 and OECD 405 guidelines.	Minimally irritating		
Dermal	No erythema, edema, or other signs of dermal irritation were observed at any treated site during the 72-hour observation period.	Not a skin irritant		
11.3.3: Sensitization		Not a skin sensitizer – OCSPP 870.2600/OECD 429		
11.4.1: Chronic toxicity		No data available		
11.4.2: Germ cell mutagenicity		No data available to indicate product or any components present greater than 0.1% are mutagenetic or genotoxic.		
11.4.3: Reproductive toxicity		No data available		
11.4.4: Specific target organ toxicity (single exposure)		Not classified		
11.4.5: Specific target organ toxicity (repeated exposure)		Not classified		
11.4.6: Aspiration hazard:		Not classified		
11.4.7: Carcinogenicity	IARC	ACGIH	NTP	OSHA
	No component of this product is present at levels greater than or equal to 0.1% is identified	No component of this product is present at levels greater than or equal to 0.1% is identified	No component of this product is present at levels greater than or equal to 0.1% is identified	No component of this product is present at levels greater than or equal to 0.1% is identified

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LABORATORIES, INC.

	probable, possible or confirmed carcinogen	probable, possible or confirmed carcinogen	probable, possible or confirmed carcinogen	probable, possible or confirmed carcinogen
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Section 12: Ecological Information

12.1: Ecotoxicity	Not environmentally hazardous.
12.2: Persistence and degradability	No data available.
12.3: Bioaccumulation	No bioaccumulation potential.
12.4: Mobility in soil	Readily absorbed into soil. Not classified as environmentally hazardous.
12.5: Other adverse effects	No data available.

Section 13: Disposal Considerations

13.1: Disposal Methods	To avoid waste, use all material in the container by application according to label directions. If waste cannot be avoided, offer remaining product to a waste disposal facility.
13.2: Container Handling	Non-refillable container. Do not reuse or refill container. Clean container promptly after emptying. Then send for recycling if available or dispose of in a sanitary landfill, or by incineration.

Section 14: Transport Information

Regulatory Information	UN Number	Proper shipping name	Classes	Packing Group	Label	Additional Information
DOT (US)	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not classified as a hazardous material
IMDG	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not classified as a hazardous material
IARA-DGR	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not classified as a hazardous material
IATA	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not classified as a hazardous material

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LABORATORIES, INC.

Section 15: Regulatory Information

15.1: US Federal Regulations	
SARA 311/312	None
SARA Title III Section 302 Extremely Hazardous Substances	None
SARA Title III Section 313 Toxic Chemicals	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, section 313.

Section 16: Other Information

Date SDS Prepared: 31 May 2023

Version 1.0

Disclaimer:

The information provided in this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for the safe handling, use, processing, storage, transportation, disposal and release and is not considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

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Tristel



LABORATORIES, INC.

Section 1: Identification

1.1: Product Name	Tristel ULT Working Solution
1.2: Intended Use	Disinfectant. For professional use only.
1.3: Restrictions of Use	Uses other than those recommended
1.4: Manufactured by/for	Tristel Solutions Limited, Unit 1B, Lynx Business Park, Fordham Road, Snailwell, Newmarket, Cambridgeshire, CB8 7NY, United Kingdom
1.5: Distributed in the USA by	Parker Laboratories Inc., 286 Eldridge Road, Fairfield, New Jersey 07004, United States
1.6: In Case of Emergency	1-800-631-8888

Section 2: Hazard(s) Identification

2.1: Product Hazard Category	This mixture is NOT considered hazardous according to the OSHA Hazard Communication Standard (29 CFR 1910.1200)
2.2: Label Content	Not a hazardous mixture
2.3 Other Hazards	Hazards Not Otherwise Classified (HNOC): None known

Section 3: Composition/Information on Ingredients

3.1: Substance	Not applicable	
3.2: Mixture		
Component	CAS Number	Concentration
Chlorine Dioxide	10049-04-4	<1%
The exact composition/components have been withheld due to trade secret.		

Section 4: First Aid Measures

4.1: Description of First Aid Measures	Due to the composition and type of the substances present in the product, no particular warnings are necessary.
4.1.1: General Advice	Seek medical attention/advice if you feel unwell.
4.1.2: Eye Contact	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.

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4.1.3: Inhalation	Remove person to fresh air and keep comfortable for breathing.
4.1.4: Skin Contact	Rinse skin immediately with plenty of water for 15-20 minutes
4.1.5: Ingestion	If accidentally ingested, seek immediate medical attention. Rinse mouth. Do NOT induce vomiting unless told to do so by the poison center or doctor. Do NOT give anything by mouth to an unconscious person.
4.2: Most important health effects, both acute and delayed	Irritation to eyes and skin may be possible
4.3: Indication of immediate medical attention and special treatment	In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

Section 5: Fire-Fighting Measures

5.1: Suitable Extinguishing Media	Use suitable media for the surrounding fire.
5.2: Specific hazard arising from the product	Toxic fumes can be emitted during combustion.
5.3: Special protective equipment for fire fighters	According to the size of the fire, it may be necessary to use protective suits against the heat, self-contained breathing equipment, gloves, protective goggles or facemasks.

Section 6: Accidental Release Measures

6.1: Personal precautions, protective equipment and emergency procedures	Use protective gloves/clothing/eye wear.
6.2: Environmental precautions	Product is not classified as environmentally hazardous, avoid spillage as much as possible. Flush with copious amounts of water into drain.
6.3: Methods and materials for containment and cleaning up	Contaminated area should be cleaned up with absorbent materials such as dry earth or sand and transferred to a sealable labelled container. Dispose of contaminants in accordance with existing federal state, provincial and or local environmental control laws.

Section 7: Handling and Storage

7.1: Precautions for safe handling	This product does not require special handling measures, the following general measures are recommended.
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7.2: Protective measures	Use appropriate personal protective equipment as needed including, but not limited to, long sleeve shirts, long pants, waterproof gloves, closed toe shoes and protective eye wear. Never use pressure to empty the containers. No smoking, eating or drinking allowed when using this product. Wash hands before breaks and at the end of work shift. Avoid contact with skin and eyes. Containers, even those that have been emptied will retain product residues or vapours. Always obey hazard warnings and handle empty containers as if they were full. Follow legislation in occupational health and safety. Always keep the product in original containers.
7.3: Conditions for safe storage	Store in a cool, well-ventilated area. Keep containers tightly closed. Store away from children. In case of spillage, flood areas with large amounts of water.

Section 8: Exposure Controls/Personal Protection

8.1: Occupational Exposure Limits	ACGIH (TLV)	NIOSH (REL)	OSHA (PEL)
	Chlorine Dioxide: TWA = 0.1ppm (0.3mg/m³) STEL = 0.3ppm (0.9mg/m³)	Chlorine Dioxide: TWA = 0.1ppm (0.3mg/m³) STEL = 0.3ppm (0.9mg/m³)	Chlorine Dioxide: TWA = 0.1ppm (0.3mg/m³)
8.2: Exposure Controls	Protective Measures		Appropriate Engineering Controls
	Provide adequate ventilation, which can be achieved by using local exhaust ventilation (LEV) and a good general exhaust system. If the recommended technical measures are observed, no individual protective equipment is required.		General industrial hygiene practices.
8.3: Personal Protection	Use appropriate personal protective equipment for surrounding hazards. No specific protective equipment is required for this mixture.		
8.3.1: Eye/Face Protection	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH.		
8.3.2: Skin Protection	Wear protective gloves. Use proper glove removal technique to avoid skin contact.		
8.3.3: Body Protection	Choose body protection appropriate to the concentration and exposure and to the workplace environment.		
8.3.4: Respiratory Protection	Not required. In case of insufficient ventilation, wear suitable respiratory equipment. NIOSH approved, air purifying organic vapour respirator.		
8.3.5: Hygiene Measures	Wash hands, forearms thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the		

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working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Section 9: Physical and Chemical Properties

Appearance:	
Physical State	Yellow liquid
Odor	Chlorine like odor
Odor threshold	No information available
Other Properties:	
pH	No information available
Melting point/freezing point	No information available
Initial boiling point and boiling point range	No information available
Flash point	No information available
Evaporation rate	No information available
Flammability (solid, gas)	No information available
Upper/lower flammability or explosive limits	No information available
Vapor pressure	No information available
Vapor density	No information available
Relative density	No information available
Solubilities	No information available
Partition coefficient (n-octanol/water)	No information available
Auto-ignition temperature	No information available
Decomposition temperature	No information available
Viscosity (kinematic)	No information available

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Section 10: Stability and Reactivity

10.1: Reactivity	The product does not present hazards by its reactivity.
10.2: Chemical Stability	Stable under the recommended storage conditions.
10.3: Possibility of hazardous reactions	Hazardous reactions will not occur under normal transport or storage conditions.
10.4: Conditions to avoid	Heat.
10.5: Incompatible materials	Strong acids and oxidizing agents.
10.6: Hazardous decomposition products	In combustion emits toxic fumes.

Section 11: Toxicological Information

Information on the likely routes of exposure: Dermal contact, eye contact, inhalation and ingestion.	
11.1: Potential acute health effects	
11.1.1: Eye contact	Possible eye irritation
11.1.2: Inhalation	Possible irritation of the respiratory tract.
11.1.3: Skin contact	Possible skin irritation.
11.1.4: Ingestion	Possible irritation of the digestive tract.
11.2: Potential chronic health effects	
11.2.1: Short term exposure: Potential immediate effects	None known.
11.2.2: Long term exposure: Potential delayed effects	Not available.
11.2.3: Long term exposure: General	No known significant effects or critical hazards
11.2.4: Long term exposure: Carcinogenicity	No known significant effects or critical hazards
11.2.5: Long term exposure: Mutagenicity	No known significant effects or critical hazards
11.2.6: Long term exposure: Teratogenicity	No known significant effects or critical hazards
11.2.7: Long term exposure: Developmental effects	No known significant effects or critical hazards
11.2.8: Long term exposure: Fertility effects	No known significant effects or critical hazards
11.3: Information on toxicological effects	

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11.3.1: Acute toxicity				
Substance/Mixture	Route		Result	
Chlorine Dioxide – 100%	Oral		292mg/kg	
Working Solution	Oral		>2000mg/kg	
11.3.2: Irritation/Corrosion				
Route	Results		Classification	
Skin Irritation	OECD 404 – Slight erythema		Slight irritant	
11.3.3: Sensitization	Not a skin sensitizer – ISO 10993-10			
11.4.1: Chronic toxicity	No data available			
11.4.2: Germ cell mutagenicity	Non-Mutagenic – OECD 471			
11.4.3: Reproductive toxicity	No data available			
11.4.4: Specific target organ toxicity (single exposure)	Not classified			
11.4.5: Specific target organ toxicity (repeated exposure)	Not classified			
11.4.6: Aspiration hazard:	Not classified			
11.4.7: Carcinogenicity	IARC	ACGIH	NTP	OSHA
	No component of this product is present at levels greater than or equal to 0.1% is identified probable, possible or confirmed carcinogen	No component of this product is present at levels greater than or equal to 0.1% is identified probable, possible or confirmed carcinogen	No component of this product is present at levels greater than or equal to 0.1% is identified probable, possible or confirmed carcinogen	No component of this product is present at levels greater than or equal to 0.1% is identified probable, possible or confirmed carcinogen

Section 12: Ecological Information

12.1: Ecotoxicity	Not environmentally hazardous.
12.2: Persistence and degradability	No data available.
12.3: Bioaccumulation	No bioaccumulation potential.
12.4: Mobility in soil	Readily absorbed into soil. Not classified as environmentally hazardous.
12.5: Other adverse effects	No data available.

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Section 13: Disposal Considerations

13.1: Disposal Methods	To avoid waste, use all material in the container by application according to label directions. If waste cannot be avoided, offer remaining product to a waste disposal facility.
13.2: Container Handling	Non-refillable container. Do not reuse or refill container. Clean container promptly after emptying. Then send for recycling if available or dispose of in a sanitary landfill, or by incineration.

Section 14: Transport Information

Regulatory Information	UN Number	Proper shipping name	Classes	Packing Group	Label	Additional Information
DOT (US)	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not classified as a hazardous material
IMDG	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not classified as a hazardous material
IARA-DGR	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not classified as a hazardous material
IATA	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not classified as a hazardous material

Section 15: Regulatory Information

15.1: US Federal Regulations	
SARA 311/312	None
SARA Title III Section 302 Extremely Hazardous Substances	None
SARA Title III Section 313 Toxic Chemicals	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, section 313.

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Section 16: Other Information

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Disclaimer:

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