

SAFETY DATA SHEET

Compilation Date: 27.06.2018 Revision Date: 15.05.2023

Revision No.: 2

Section 1. Identification of the material and the supplier

Product: Tristel DUO NCU Activator Solution

Product Use: To be used with Tristel DUO NCU Base Solution. For professional

use only. Uses advised against: Uses other than the intended

use of the product.

Restrictions of use: Refer to Section 15

New Zealand Supplier: Tristel New Zealand Limited

23 Birch Ave, Judea Tauranga, 3110

Telephone: +64 (7) 577 1560

Fax Number: +64 (7) 577 1567

Email: info@tristel.co.nz

Emergency No: 0800 764 766 (National Poison Centre)

Australian Supplier: Tristel Pty Ltd

Unit 44, 328 Reserve Road Cheltenham, VIC, 3192

Telephone No: 1300 680 898 (within Australia)

+61 3 958 36181 (outside Australia)

Emergency No: 13 11 26 (National Poison Line)

Section 2. Hazards Identification

Australia — This mixture is non-hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals, 3rd Revised Edition

NZ - This mixture is non-hazardous according to EPA Hazardous Substances (Classification) Notice 2020

NZ - EPA Approval Code: None assigned

Product Name: Tristel DUO NCU Activator Solution

Date of SDS: 15.05.2023

Section 3. Composition of hazardous Ingredients

Hazardous Ingredients	CAS NUMBER	GHS Classification	Percentage %
Sodium Chlorite 100%	7758-19-2	Eye Dam. 1: H318; Ox. Sol. 1: H271; Acute Tox. 3: H301; Acute Tox. 2: H310; Skin Corr. 1B: H314; Aquatic Acute 1: H400; STOT RE 2: H373; Aquatic Chronic 3: H412	(1
1-Decanamine, N, N-dimethyl-N- oxide	2605-79-0	Aquatic Acute 1: H400; Aquatic Chronic 2: H411; Eye Dam. 1: H318; Acute Tox. 4: H302	< 1

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes Rinse eyes with water and seek medical advice if irritation persists.

If on Skin Wash immediately with plenty of soap and water.

If Swallowed Wash out mouth with water.

If Inhaled Move to fresh air in case of accidental inhalation of vapours.

Most important symptoms and effects, both acute and delayed

Ingestion There may be irritation of the throat.

Inhalation There may be irritation of the throat with a feeling of tightness in the chest.

Section 5. Fire Fighting Measures

Hazard Type	The product is not flammable.
Hazards from products	In combustion emits toxic fumes.
Suitable Extinguishing	Suitable extinguishing media for the surrounding fire should be used. Use
media	water spray to cool containers.
Precautions for	Wear self-contained breathing apparatus. Wear protective clothing to prevent
firefighters and special	contact with skin and eyes.
protective clothing	
HAZCHEM CODE	None allocated

Product Name: Tristel DUO NCU Activator Solution

Date of SDS: 15.05.2023

Section 6. Accidental Release Measures

For personal protection, see Section 8. Evacuate all unprotected personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Prevent product from entering drains. Dispose of according to Local Regulations.

Section 7. Handling and Storage

Handling:

- Read label before use.
- Avoid direct contact with the substance.
- Avoid the formation or spread of mists in the air.
- Use only in a well-ventilated area.

Storage:

- Store in cool, well ventilated area.
- Keep container tightly closed.
- Store away from incompatible materials listed in Section 10.

Section 8 Exposure Contro	ols / Personal Protection
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WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

TWA STEL
Substance ppm mg/m³ ppm mg/m³

No ingredients have exposure limits

Engineering Controls

Ensure there is sufficient ventilation of the area.

Personal Protection Equipment

Respiratory	Respiratory Respiratory protection not required.	
Skin Product is classified as non-hazardous		
Eve	Product is classified as non-hazardous	

Section 9	Physical and Chemical Properties	

Appearance	Liquid
Colour	Colourless
Odour	Not available

Product Name: Tristel DUO NCU Activator Solution

Date of SDS: 15.05.2023

Odour Threshold	Not available
pH	10.3-11.3
Boiling Point	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	Not available
Flammability	Not available
Upper and Lower Explosive	Not available
Limits	
Vapour Pressure	Not available
Vapour Density	Not available
Relative Density	1.000 - 1.010
Solubility	Not available
Partition Coefficient:	Not available
Auto Ignition temp	Not available
Oxidising	Not available
Viscosity	Not available
Evaporation Rate	Not available
VOC	Not available
Solid content	Not available
VOC	Not available

Section 10. Stability and Reactivity

Stability of Substance	Stable under recommended handling and storage conditions.
Conditions to Avoid	Heat.
Incompatible Materials	Strong oxidising agents. Strong Acids.
Hazardous Decomposition	In combustion emits toxic fumes.
Products	

Section 11	Toxicological Information	

Acute Effects:

Ingestion	There may be irritation of throat.
Inhalation	There may be irritation of the throat with a feeling of tightness in the chest.
Skin contact	There may be mild irritation at site of contact.
Eye contact	There may be irritation and redness.

Chronic Effects:

Carcinogenicity	Not applicable.	
Reproductive Toxicity	Not applicable.	
Germ Cell Mutagenicity	Not applicable.	
Aspiration	Not applicable.	
STOT/SE	Not applicable.	
STOT/RE	Not applicable.	

Product Name: Tristel DUO NCU Activator Solution Date of SDS: 15.05.2023
Date SDS due for review: 15.05.2028

Section 12. Ecotoxicological Information

HSNO Classes: Not applicable

Persistence and degradability	Biodegradable.	
Bioaccumulation	No bioaccumulation potential.	
Mobility in Soil	Readily absorbed into soil. Not classified as environmentally	
	hazardous.	
Other adverse effects	No data available	

Hazardous ingredients:

SODIUM CHLORITE 100%

Daphnia magna	48H EC50	0.29	mg/l
FISH	96H LC50	265-310	mg/l

1-DECANAMINE, N, N-DIMETHYL-N-OXIDE

EICH	96H I C50	2.67	ma/l
ГІЗП	9011 1050	2.0/	mg/l

Section 13. Disposal Precautions

Disposal Method: The user's attention is drawn to the possible existence of regional or national

regulations regarding disposal.

Section 14 Transport Information

This product is NOT classified as a Dangerous Good for transport in Australia; ADG 7.7

This product is NOT classified as a Dangerous Good for transport: NZS 5433:2020

Section 15 Regulatory Information

Australia:

Australia — This mixture is non-hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals, 3rd Revised Edition

Poison Schedule No: None assigned

New Zealand:

EPA Approval Code: None assigned

Product Name: Tristel DUO NCU Activator Solution

Date of SDS: 15.05.2023

Section 16 Other Information

Date SDS prepared: 15.05.2023

Date SDS due for review: 15.05.2028

Glossary

EC₅₀ Median effective concentration. EEL Environmental Exposure Limit. EPA Environmental Protection Authority

HSNO Hazardous Substances and New Organisms.

Lethal concentration that will kill 50% of the test organisms.

LD₅₀ Lethal dose to kill 50% of test animals/organisms.

LEL Lower explosive level.

OSHA American Occupational Safety and Health Administration.

TEL Tolerable Exposure Limit.

TLV Threshold Limit Value-an exposure limit set by responsible authority.

UEL Upper Explosive Level
WES Workplace Exposure Limit

- 1. EPA Hazardous Substances (Safety Data Sheets) Notice June 2021
- 2. Safe Work Australia NOHSC 2011 National Code of Practice.

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average

exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WES-STEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices JUNE 2016 8TH

EDITION

Disclaimer

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

Please contact your local Tristel distributor if further information is required.

Product Name: Tristel DUO NCU Activator Solution

Date of SDS: 15.05.2023



SAFETY DATA SHEET

Compilation Date: 27.06.2018 Revision Date: 15.05.2023

Revision No.: 2

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Product: Tristel DUO NCU Base Solution

Product Use: To be used with Tristel DUO NCU Activator Solution. For

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intended use of the product.

Restrictions of use: Refer to Section 15

New Zealand Supplier: Tristel New Zealand Limited

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Emergency No: 13 11 26 (National Poison Line)

Section 2. Hazards Identification

Australia – This mixture is hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals, 3rd Revised Edition

NZ - This mixture is hazardous according to EPA Hazardous Substances (Classification) Notice 2020

NZ - EPA Approval Code: HSR002503

Product Name: Tristel DUO NCU Base Solution

Date of SDS: 15.05.2023

Pictogram:



Signal Word: WARNING

HSNO Class.	Hazard Code	Hazard Statement	GHS Category
6.4A	H319	Causes serious eye irritation	Category 2A

Prevention Code	Prevention Statement
P280	Wear eye protection.

Response CodeResponse StatementP305 + P351+P338IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.P337 + P313If eye irritation persists: Get medical advice.

Section 3. Composition of hazardous Ingredients

Hazardous Ingredients	CAS NUMBER	GHS Classification	Percentage %
Citric Acid Monohydrate	5949-29-1	Eye Irrit.2: H319	1-10
1-Decanamine, N, N-dimethyl-N-oxide	2605-79-0	Aquatic Acute 1: H400; Aquatic Chronic 2: H411; Eye Dam. 1: H318; Acute Tox. 4: H302	(1

Section 4.	First Aid Measures	
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Routes of Exposure:

If in Eyes Bathe the eye with running water for 15 minutes. Seek medical attention if eye

irritation persists.

If on Skin Wash immediately with plenty of soap and water.

If Swallowed Wash out mouth with water.

If Inhaled Move to fresh air in case of accidental inhalation of vapours.

Product Name: Tristel DUO NCU Base Solution

Date of SDS: 15.05.2023

Date SDS due for review: 15.05.2028 Page 2

Most important symptoms and effects, both acute and delayed

Eye contact There may be irritation and redness. Ingestion There may be irritation of the throat.

Inhalation There may be irritation of the throat with a feeling of tightness in the chest.

Section 5.	Fire Fighting Measures
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Hazard Type	The product is not flammable.
Hazards from products	In combustion emits toxic fumes.
Suitable Extinguishing	Suitable extinguishing media for the surrounding fire should be used. Use
media	water spray to cool containers.
Precautions for	Wear self-contained breathing apparatus. Wear protective clothing to prevent
firefighters and special	contact with skin and eyes.
protective clothing	
HAZCHEM CODE	None allocated

Section 6. Accidental Release Measures

For personal protection, see Section 8. Evacuate all unprotected personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Prevent product from entering drains. Dispose of according to Local Regulations.

Section 7. Handling and Storage

Handling:

- Read label before use.
- Ensure there is sufficient ventilation of the area.
- Wear protective eye protection.

Storage:

- Store in cool, well ventilated area.
- Keep container tightly closed.
- Store away from incompatible materials listed in Section 10.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

TWA STEL
Substance ppm mg/m³ ppm mg/m³

No ingredients have exposure limits

Product Name: Tristel DUO NCU Base Solution

Date of SDS: 15.05.2023

Engineering Controls

Ensure there is sufficient ventilation of the area.

Personal Protection Equipment

Eyes	Wear safety glasses. Ensure eye bath is to hand.
Respiratory	Respiratory protection not required.
Skin	Protective gloves

Section 9 Physical and Chemical Properties

Appearance	Liquid
Colour	Blue
Odour	Not available
Odour Threshold	Not available
pH	2.0-3.0
Boiling Point	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	Not available
Flammability	Not available
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density	Not available
Relative Density	1.020 - 1.030
Solubility	Not available
Partition Coefficient:	Not available
Auto Ignition temp	Not available
Oxidising	Not available
Viscosity	Not available
Evaporation Rate	Not available
VOC	Not available
Solid content	Not available
VOC	Not available

Section 10. Stability and Reactivity

Stability of Substance	Stable under recommended handling and storage conditions.
Conditions to Avoid	Heat.
Incompatible Materials	Strong oxidising agents. Strong Acids.
Hazardous Decomposition	In combustion emits toxic fumes.
Products	

Product Name: Tristel DUO NCU Base Solution

Date of SDS: 15.05.2023

Section 11 Toxicological Information

Acute Effects:

Ingestion	There may be irritation of throat.
Inhalation	There may be irritation of the throat with a feeling of tightness in the chest.
Eye Contact	There may be irritation and redness.
Skin Contact	There may be mild irritation at site of contact.

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive Toxicity	Not applicable.
Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Not applicable.

Section 12. Ecotoxicological Information

HSNO Classes: Not applicable

Persistence and degradability	Biodegradable.	
Bioaccumulation	No bioaccumulation potential.	
Mobility in Soil	Readily absorbed into soil. Not classified as environmentally	
	hazardous.	
Other adverse effects	No data available	

Hazardous ingredients:

CITRIC ACID MONOHYDRATE

FISH	96H LC50	440-706	mg/l

1-DECANAMINE, N, N-DIMETHYL-N-OXIDE

FISH	96H LC50	2.67	mg/l

Section 13. Disposal Precautions

Disposal Method: The user's attention is drawn to the possible existence of regional or national

regulations regarding disposal.

Product Name: Tristel DUO NCU Base Solution

Date of SDS: 15.05.2023

Section 14 Transport Information

This product is NOT classified as a Dangerous Good for transport in Australia; ADG 7.7

This product is NOT classified as a Dangerous Good for transport: NZS 5433:2020

Section 15 Regulatory Information

Australia:

Australia – This mixture is hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals, 3rd Revised Edition

Poison Schedule No: None assigned

New Zealand:

EPA Approval Code: HSR002503

HSNO Classification: 6.4A

HSNO Controls in New Zealand:

	Trigger Quantity	
Approved Handler	Not required	
Location Certificate	Not required	
Tracking Trigger Quantities	Not required	
Signage Trigger Quantities	Not required	
Emergency Response Plan	Not required	
Secondary Containment	Not required	
Restriction of Use	None	

Section 16 Other Information

Date SDS prepared: 15.05.2023

Date SDS due for review: 15.05.2028

Glossary

EC₅₀ Median effective concentration. EEL Environmental Exposure Limit. EPA Environmental Protection Authority

HSNO Hazardous Substances and New Organisms.

 LC_{50} Lethal concentration that will kill 50% of the test organisms.

Lethal dose to kill 50% of test animals/organisms.

LEL Lower explosive level.

OSHA American Occupational Safety and Health Administration.

TEL Tolerable Exposure Limit.

TLV Threshold Limit Value-an exposure limit set by responsible authority.

Product Name: Tristel DUO NCU Base Solution

Date of SDS: 15.05.2023

Date SDS due for review: 15.05.2028 Page 6

UEL Upper Explosive Level WES Workplace Exposure Limit

- 1. EPA Hazardous Substances (Safety Data Sheets) Notice June 2021
- 2. Safe Work Australia NOHSC 2011 National Code of Practice.

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average

exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WES-STEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices JUNE 2016 8TH EDITION.

Disclaimer

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Please contact the distributor, Tristel, if further information is required.

Product Name: Tristel DUO NCU Base Solution

Date of SDS: 15.05.2023



SAFETY DATA SHEET

Compilation Date: 27.06.2018 Revision Date: 15.05.2023

Revision No.: 2

Section 1. Identification of the material and the supplier

Product: Tristel DUO NCU Working Solution

Product Use: Disinfectant solution. For professional use only. Uses advised

against: Uses other than the intended use of the product.

Restrictions of use: Refer to Section 15

New Zealand Supplier: Tristel New Zealand Limited

23 Birch Ave, Judea Tauranga, 3110

Telephone: +64 (7) 577 1560

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Section 2. Hazards Identification

Australia — This mixture is non-hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals, 3rd Revised Edition

NZ - This mixture is non-hazardous according to EPA Hazardous Substances (Classification) Notice 2020

NZ - EPA Approval Code: None assigned

Product Name: Tristel DUO NCU Working Solution

Date of SDS: 15.05.2023

Section 3. Composition of hazardous Ingredients

Non-Hazardous Ingredients (provided for guidance only)	CAS NUMBER	GHS Classification	Percentage %
Chlorine Dioxide	10049-04-4	Acute Tox. 3: H301; Skin Corr. 1B: H314; Aquatic Acute 1: H400	< 1

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes Rinse eyes with water and seek medical advice if irritation persists.

If on Skin Wash immediately with plenty of soap and water.

If Swallowed Wash out mouth with water.

If Inhaled Move to fresh air in case of accidental inhalation of vapours.

Most important symptoms and effects, both acute and delayed

Skin contact There may be mild irritation at the site of contact

Eye contact There may be irritation and redness. Ingestion There may be irritation of the throat.

Inhalation There may be irritation of the throat with a feeling of tightness in the chest.

Section 5. Fire Fighting Measures

Hazard Type	The product is not flammable.
Hazards from products	In combustion emits toxic fumes.
Suitable Extinguishing	Suitable extinguishing media for the surrounding fire should be used. Use
media	water spray to cool containers.
Precautions for	Wear self-contained breathing apparatus. Wear protective clothing to prevent
firefighters and special	contact with skin and eyes.
protective clothing	
HAZCHEM CODE	None allocated

Section 6. Accidental Release Measures

For personal protection, see Section 8. Evacuate all unprotected personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Dispose of according to Local Regulations.

Product Name: Tristel DUO NCU Working Solution

Date of SDS: 15.05.2023

Section 7. Handling and Storage

Handling:

- Read label before use.
- Use only in a well-ventilated area.
- Wear protective eye protection.

Storage:

- Store in cool, well ventilated area.
- Keep container tightly closed.
- Store away from incompatible materials listed in Section 10.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA ppm	mg/m³	STEL ppm	mg/m³
Chlorine Dioxide	0.1	0.28	0.3	0.84

Engineering Controls

Ensure there is sufficient ventilation of the area.

Personal Protection Equipment

Eyes	Wear safety glasses. Ensure eye bath is to hand.
Hands and Skin	Wear suitable gloves and protective clothing.
Respiratory	Respiratory protection not required.

Section 9 Physical and Chemical Properties

Appearance	Liquid
Colour	Yellow
Odour	Chlorine like
Odour Threshold	Not available
pH	Not available
Boiling Point	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	Not available
Flammability	Not available
Upper and Lower Explosive Limits	Not available

Product Name: Tristel DUO NCU Working Solution

Date of SDS: 15.05.2023

Vapour Pressure	Not available
Vapour Density	Not available
Relative Density	Not available
Solubility	Not available
Partition Coefficient:	Not available
Auto Ignition temp	Not available
Oxidising	Not available
Viscosity	Not available
Evaporation Rate	Not available
VOC	Not available
Solid content	Not available
VOC	Not available

Section 10. Stability and Reactivity

Stability of Substance	Stable under recommended handling and storage conditions.
Conditions to Avoid	Heat.
Incompatible Materials	Strong oxidising agents. Strong Acids.
Hazardous Decomposition	In combustion emits toxic fumes.
Products	

Section 11 Toxic	ological Information
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Acute Effects:

Ingestion	There may be irritation of throat.
Inhalation	There may be irritation of the throat with a feeling of tightness in the chest.
Eye Contact	There may be irritation and redness.
Skin Contact	There may be irritation and redness at the site if contact.

Chronic Effects:

Carcinogenicity	Not applicable.	
Reproductive Toxicity	Not applicable.	
Germ Cell Mutagenicity	Not applicable.	
Aspiration	Not applicable.	
STOT/SE	Not applicable.	
STOT/RE	Not applicable.	

Section 12. Ecotoxicological Information

HSNO Classes: Not applicable

Persistence and degradability	Biodegradable.
Bioaccumulation	No bioaccumulation potential.
Mobility in Soil	Readily absorbed into soil. Not classified as environmentally
	hazardous.

Product Name: Tristel DUO NCU Working Solution

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Other adverse effects No data available

Section 13. Disposal Precautions

Disposal Method: The user's attention is drawn to the possible existence of regional or national

regulations regarding disposal.

Section 14 Transport Information

This product is NOT classified as a Dangerous Good for transport in Australia; ADG 7.7

This product is NOT classified as a Dangerous Good for transport: NZS 5433: 2020

Section 15 Regulatory Information

Australia:

Australia – This mixture is non-hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals, 3rd Revised Edition

Poison Schedule No: None assigned

New Zealand:

EPA Approval Code: None assigned

HSNO Classification: None assigned

HSNO Controls in New Zealand: Not required

Section 16 Other Information

Date SDS prepared: 15.05.2023

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Glossary

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 $Workplace\ Exposure\ Standard\ -\ Time\ Weighted\ Average\ (WES-TWA).\ The\ time-weighted\ average$

exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WES-STEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices JUNE 2016 8TH EDITION.

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