Safety Data Sheet

CREAM R7 (500 ML)

Revision: 2018-12-03 **Version:** 01.0

SECTION 1: Identification of the substance/mixture and supplier

1.1 Product identifier
Product name: CREAM R7 (500 ML)

1.2 Recommended use and restrictions on use
Identified uses:
Hard surface cleaner
Restrictions of use:
Uses other than those identified are not recommended

1.3 Details of the supplier
DIVERSEY NEW ZEALAND LTD.
24 Bancroft Crescent, Glendene, Auckland, 0602, New Zealand
Telephone: +64 9 813 9800; 0800 803 615 (toll free)
Fax: + 64 9 813 9801
Website: www.diversey.com

1.4 Emergency telephone number
Call 0800 243 622 (24 hrs)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

HSNO Classification
6.3B - Mildly irritating to the skin
6.4A - Irritating to the eye
9.1D - Slightly harmful to the aquatic environment or are otherwise designed for biocidal action

GHS Equivalent Classification
Skin irritation, Category 3
Serious eye irritation, Category 2
Acute aquatic toxicity, Category 3

2.2 Label elements

Signal word: Warning

Hazard statements:
H316 - Causes mild skin irritation.
H319 - Causes serious eye irritation.
H402 - Harmful to aquatic life.

Prevention statement(s):
P264 - Wash face, hands and any exposed skin thoroughly after handling.
P280 - Wear eye protection.
P273 - Avoid release to the environment.

Response statement(s):
P332 + P313 - If skin irritation occurs: Get medical advice or attention.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists: Get medical advice or attention.

Disposal statement(s):

P501 - Dispose of unused content as chemical waste.

2.3 Other hazards
No other hazards known.

SECTION 3: Composition/information on ingredients

3.1 Substances / Mixtures

Ingredient(s)	CAS number	EC number	Weight percent
calcium carbonate	471-34-1	207-439-9	10-30
sodium dodecylbenzenesulphonate	25155-30-0	246-680-4	3-10
sodium carbonate	497-19-8	207-838-8	1-3
Alcohols, C12-15, ethoxylated	68131-39-5	[4]	1-3
1,2-benzisothiazol-3(2H)-one	2634-33-5	220-120-9	0.01-0.1

Non-hazardous ingredients are the remainder and add up to 100%.

* Polymer.
Workplace exposure limit(s), if available, are listed in subsection 8.1.

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation: Get medical attention or advice if you feel unwell.

Skin contact: Wash skin with plenty of lukewarm, gently flowing water. If skin irritation occurs: Get medical advice or attention.

Eye contact: Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation occurs and persists, get medical attention.

Ingestion: Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Get medical attention or advice if you feel unwell.

Self-protection of first aider: Consider personal protective equipment as indicated in subsection 8.2.

First aid facilities: Eyewash facilities should be considered in a workplace where necessary.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation: No known effects or symptoms in normal use.

Skin contact: No known effects or symptoms in normal use.

Eye contact: Causes severe irritation.

Ingestion: No known effects or symptoms in normal use.

4.3 Indication of any immediate medical attention and special treatment needed
No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

Poison Information Center: Call 0800 764 766 (0800 POISON)

SECTION 5: Firefighting measures

5.1 Extinguishing media
Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

5.2 Special hazards arising from the substance or mixture
No special hazards known.

5.3 Advice for firefighters
As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

5.4 Hazchem code
None allocated

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
No special measures required.

6.2 Environmental precautions
Do not allow to enter drainage system, surface or ground water. Do not allow to enter the ground/soil. Dilute with plenty of water. Inform responsible authorities in case undiluted product reaches drainage system, surface or ground water or the ground/soil.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust).

6.4 Reference to other sections
For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Measures to prevent fire and explosions:
No special precautions required.

Measures required to protect the environment:
For environmental exposure controls see subsection 8.2.

Advices on general occupational hygiene:
Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless adviced by Diversey. Wash hands before breaks and at the end of workday. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Use personal protective equipment as required. Avoid contact with eyes. Use only with adequate ventilation. See chapter 8.2, Exposure controls / Personal protection.

7.2 Conditions for safe storage, including any incompatibilities
Store in accordance with local and national regulations. Store in a closed container. Keep only in original packaging.
For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

7.3 Specific end use(s)
No specific advice for end use available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
Workplace exposure limits

Air limit values, if available:

Ingredient(s)	Long term value(s)	Short term value(s)	Ceiling value(s)
calcium carbonate	10 mg/m³		

Biological limit values, if available:

8.2 Exposure controls

The following information applies for the uses indicated in subsection 1.2 of the Safety Data Sheet.
If available, please refer to the product information sheet for application and handling instructions.
Normal use conditions are assumed for this section.

Recommended safety measures for handling the undiluted product:

Appropriate engineering controls: No special requirements under normal use conditions.
Appropriate organisational controls: Avoid direct contact and/or splashes where possible. Train personnel.

Personal protective equipment
Eye / face protection: Safety glasses are not normally required. However, their use is recommended in those cases where splashes may occur when handling the product (EN 166).
Hand protection: No special requirements under normal use conditions.
Body protection: No special requirements under normal use conditions.
Respiratory protection: No special requirements under normal use conditions.

Environmental exposure controls: No special requirements under normal use conditions.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

	Method / remark
Physical State: Liquid	
Colour: Milky, White	
Odour: Product specific Slightly perfumed	
Odour threshold: Not applicable	
pH: ≈ 11 (neat)	ISO 4316
Melting point/freezing point (°C): Not determined	Not relevant to classification of this product
Initial boiling point and boiling range (°C): 999	
Flammability (liquid): Not flammable.	

Flash point (°C): Not applicable.
Sustained combustion: Not applicable.
(UN Manual of Tests and Criteria, section 32, L.2)
Evaporation rate: Not relevant for classification of this product. Not relevant to classification of this product
Flammability (solid, gas): Not applicable to liquids
Upper/lower flammability limit (%): Not determined
Vapour pressure: Not determined
Vapour density: Not determined Not relevant to classification of this product
Relative density: ≈ 1.20 (20 °C) OECD 109 (EU A.3)
Solubility in / Miscibility with Water: Fully miscible
Partition coefficient: n-octanol/water No information available.
Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3
Autoignition temperature: Not determined
Decomposition temperature: Not applicable.
Viscosity: ≈ 600 mPa.s (20 °C) DM-006, Viscosity
Explosive properties: Not explosive.
Oxidising properties: Not oxidising

9.2 Other information
Surface tension (N/m): Not determined OECD 115
Corrosion to metals: Not corrosive

SECTION 10: Stability and reactivity

10.1 Reactivity
No reactivity hazards known under normal storage and use conditions.

10.2 Chemical stability
Stable under normal storage and use conditions.

10.3 Possibility of hazardous reactions
No hazardous reactions known under normal storage and use conditions.

10.4 Conditions to avoid
None known under normal storage and use conditions.

10.5 Incompatible materials
Reacts with acids.

10.6 Hazardous decomposition products
None known under normal storage and use conditions.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Mixture data:

Relevant calculated ATE(s):
ATE - Oral (mg/kg): >5000
ATE - Dermal (mg/kg): >5000
ATE - Inhalatory, mists (mg/l): >20

Eye irritation and corrosivity
Result: Eye irritant 2 **Method:** Weight of evidence

Substance data, where relevant and available, are listed below:.

Acute toxicity
Acute oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
calcium carbonate		No data available			
sodium dodecylbenzenesulphonate	LD_{50}	650	Rat	Non guideline test Weight of evidence	
sodium carbonate	LD_{50}	2800	Rat	Method not given	
Alcohols, C12-15, ethoxylated		No data available			
1,2-benzisothiazol-3(2H)-one	LD_{50}	> 2000	Rat		

Acute dermal toxicity

Ingredient(s)	Endpoint	Value	Species	Method	Exposure

		(mg/kg)			time (h)
calcium carbonate		No data available			
sodium dodecylbenzenesulphonate		No data available			
sodium carbonate	LD_{50}	> 2000	Rabbit	Method not given	
Alcohols, C12-15, ethoxylated		No data available			
1,2-benzisothiazol-3(2H)-one	LD_{50}	> 2000	Rat	OECD 402 (EU B.3)	

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
calcium carbonate		No data available			
sodium dodecylbenzenesulphonate		No data available			
sodium carbonate	LC_{50}	2.3 (dust)	Rat	OECD 403 (EU B.2)	2
Alcohols, C12-15, ethoxylated		No data available			
1,2-benzisothiazol-3(2H)-one		No data available			

Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
calcium carbonate	No data available			
sodium dodecylbenzenesulphonate	No data available			
sodium carbonate	Not irritant	Rabbit	OECD 404 (EU B.4)	
Alcohols, C12-15, ethoxylated	No data available			
1,2-benzisothiazol-3(2H)-one	Corrosive			

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
calcium carbonate	No data available			
sodium dodecylbenzenesulphonate	No data available			
sodium carbonate	Irritant	Rabbit	Method not given	
Alcohols, C12-15, ethoxylated	No data available			
1,2-benzisothiazol-3(2H)-one	No data available			

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
calcium carbonate	No data available			
sodium dodecylbenzenesulphonate	No data available			
sodium carbonate	No data available			
Alcohols, C12-15, ethoxylated	No data available			
1,2-benzisothiazol-3(2H)-one	No data available			

Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
calcium carbonate	No data available			
sodium dodecylbenzenesulphonate	No data available			
sodium carbonate	Not sensitising		Method not given	
Alcohols, C12-15, ethoxylated	No data available			
1,2-benzisothiazol-3(2H)-one	Sensitising	Guinea pig		

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
calcium carbonate	No data available			
sodium dodecylbenzenesulphonate	No data available			
sodium carbonate	No data available			
Alcohols, C12-15, ethoxylated	No data available			
1,2-benzisothiazol-3(2H)-one	No data available			

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Mutagenicity

Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
calcium carbonate	No data available		No data available	
sodium dodecylbenzenesulphonate	No data available		No data available	

sodium carbonate	No data available		No data available	
Alcohols, C12-15, ethoxylated	No data available		No data available	
1,2-benzisothiazol-3(2H)-one	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13)	No data available	

Carcinogenicity

Ingredient(s)	Effect
calcium carbonate	No data available
sodium dodecylbenzenesulphonate	No data available
sodium carbonate	No evidence for carcinogenicity, weight-of-evidence
Alcohols, C12-15, ethoxylated	No data available
1,2-benzisothiazol-3(2H)-one	No data available

Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
calcium carbonate			No data available				
sodium dodecylbenzenesulphonate			No data available				
sodium carbonate			No data available				
Alcohols, C12-15, ethoxylated			No data available				
1,2-benzisothiazol-3(2H)-one			No data available				

Repeated dose toxicity

Sub-acute or sub-chronic oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
calcium carbonate		No data available				
sodium dodecylbenzenesulphonate		No data available				
sodium carbonate		No data available				
Alcohols, C12-15, ethoxylated		No data available				
1,2-benzisothiazol-3(2H)-one		No data available				

Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
calcium carbonate		No data available				
sodium dodecylbenzenesulphonate		No data available				
sodium carbonate		No data available				
Alcohols, C12-15, ethoxylated		No data available				
1,2-benzisothiazol-3(2H)-one		No data available				

Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
calcium carbonate		No data available				
sodium dodecylbenzenesulphonate		No data available				
sodium carbonate		No data available				
Alcohols, C12-15, ethoxylated		No data available				
1,2-benzisothiazol-3(2H)-one		No data available				

Chronic toxicity

Ingredient(s)	Exposure route	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time	Specific effects and organs affected	Remark
calcium carbonate			No data available					
sodium dodecylbenzenesulphonate			No data available					
sodium carbonate			No data					

			available					
Alcohols, C12-15, ethoxylated			No data available					
1,2-benzisothiazol-3(2H)-one			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
calcium carbonate	No data available
sodium dodecylbenzenesulphonate	No data available
sodium carbonate	No data available
Alcohols, C12-15, ethoxylated	No data available
1,2-benzisothiazol-3(2H)-one	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
calcium carbonate	No data available
sodium dodecylbenzenesulphonate	No data available
sodium carbonate	No data available
Alcohols, C12-15, ethoxylated	No data available
1,2-benzisothiazol-3(2H)-one	No data available

Aspiration hazard
Substances with an aspiration hazard (H304), if any, are listed in section 3. If relevant, see section 9 for dynamic viscosity and relative density of the product.

Potential adverse health effects and symptoms
Effects and symptoms related to the product, if any, are listed in subsection 4.2.

SECTION 12: Ecological information

12.1 Toxicity

No data is available on the mixture.

Substance data, where relevant and available, are listed below:

Aquatic short-term toxicity
Aquatic short-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
calcium carbonate		No data available			
sodium dodecylbenzenesulphonate		No data available			
sodium carbonate	LC_{50}	300	*Lepomis macrochirus*	Method not given	96
Alcohols, C12-15, ethoxylated		No data available			
1,2-benzisothiazol-3(2H)-one	LC_{50}	2.18	*Oncorhynchus mykiss*	OECD 203 (EU C.1)	

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
calcium carbonate		No data available			
sodium dodecylbenzenesulphonate		No data available			
sodium carbonate	EC_{50}	265	*Daphnia magna Straus*	Method not given	96
Alcohols, C12-15, ethoxylated		No data available			
1,2-benzisothiazol-3(2H)-one	EC_{50}	2.94	*Daphnia*	OECD 202 (EU C.2)	48

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
calcium carbonate		No data available			
sodium dodecylbenzenesulphonate		No data available		Weight of evidence	
sodium carbonate		No data available			-
Alcohols, C12-15, ethoxylated		No data available			
1,2-benzisothiazol-3(2H)-one	$E_r C_{50}$	0.11		OECD 201 (EU C.3)	72

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
calcium carbonate		No data available			
sodium dodecylbenzenesulphonate		No data available			
sodium carbonate		No data available			-
Alcohols, C12-15, ethoxylated		No data available			
1,2-benzisothiazol-3(2H)-one		No data available			

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
calcium carbonate		No data available			
sodium dodecylbenzenesulphonate		No data available			
sodium carbonate		No data available			
Alcohols, C12-15, ethoxylated		No data available			
1,2-benzisothiazol-3(2H)-one	EC_{20}	3.3	*Activated sludge*	OECD 209	3 hour(s)

Aquatic long-term toxicity

Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
calcium carbonate		No data available				
sodium dodecylbenzenesulphonate		No data available				
sodium carbonate		No data available				
Alcohols, C12-15, ethoxylated		No data available				
1,2-benzisothiazol-3(2H)-one		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
calcium carbonate		No data available				
sodium dodecylbenzenesulphonate		No data available				
sodium carbonate		No data available				
Alcohols, C12-15, ethoxylated		No data available				
1,2-benzisothiazol-3(2H)-one		No data available				

Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw sediment)	Species	Method	Exposure time (days)	Effects observed
calcium carbonate		No data available				
sodium dodecylbenzenesulphonate		No data available				
sodium carbonate		No data available			-	
Alcohols, C12-15, ethoxylated		No data available				
1,2-benzisothiazol-3(2H)-one		No data available				

Terrestrial toxicity

Terrestrial toxicity - soil invertebrates, including earthworms, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
sodium carbonate		No data available			-	

Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
sodium carbonate		No data available			-	

Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
sodium carbonate		No data available			-	

Terrestrial toxicity - beneficial insects, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
sodium carbonate		No data available			-	

Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
sodium carbonate		No data available			-	

12.2 Persistence and degradability

Abiotic degradation

Abiotic degradation - photodegradation in air, if available:

Abiotic degradation - hydrolysis, if available:

Ingredient(s)	Half-life time in fresh water	Method	Evaluation	Remark
sodium carbonate	No data available		Rapidly hydrolysible	

Abiotic degradation - other processes, if available:

Biodegradation

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT_{50}	Method	Evaluation
calcium carbonate					Not applicable (inorganic substance)
sodium dodecylbenzenesulphonate				OECD 301E	Readily biodegradable
sodium carbonate					Not applicable (inorganic substance)
Alcohols, C12-15, ethoxylated				OECD 301B	Readily biodegradable
1,2-benzisothiazol-3(2H)-one				Weight of evidence	Not readily biodegradable.

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

Ingredient(s)	Medium & Type	Analytical method	DT_{50}	Method	Evaluation
1,2-benzisothiazol-3(2H)-one	Sewage treatment plant simulation	Primary degradation	> 90%	OECD 303A	Biodegradable

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
calcium carbonate	No data available			
sodium dodecylbenzenesulphonate	No data available			
sodium carbonate	No data available		No bioaccumulation expected	
Alcohols, C12-15, ethoxylated	No data available			
1,2-benzisothiazol-3(2H)-one	0.7	OECD 107	No bioaccumulation expected	

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
calcium carbonate	No data available				
sodium dodecylbenzenesulphonate	No data available				
sodium carbonate	No data available			No bioaccumulation expected	
Alcohols, C12-15, ethoxylated	No data available				

1,2-benzisothiazol-3(2H)-one	6.95		OECD 305		

12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log Koc	Desorption coefficient Log Koc(des)	Method	Soil/sediment type	Evaluation
calcium carbonate	No data available				
sodium dodecylbenzenesulphonate	No data available				
sodium carbonate	No data available				Potential for mobility in soil, soluble in water
Alcohols, C12-15, ethoxylated	No data available				
1,2-benzisothiazol-3(2H)-one	No data available				

12.5 Other adverse effects

No other adverse effects known.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste from residues / unused products: The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation.

Empty packaging

Recommendation: Dispose of observing national or local regulations.

Suitable cleaning agents: Water, if necessary with cleaning agent.

SECTION 14: Transport information

Land transport, Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)

14.1 UN number: Non-dangerous goods

14.2 UN proper shipping name: Non-dangerous goods

14.3 Transport hazard class(es): Non-dangerous goods

14.4 Packing group: Non-dangerous goods

14.5 Environmental hazards: Non-dangerous goods

14.6 Special precautions for user: Non-dangerous goods

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: Non-dangerous goods

Hazchem code: None allocated

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

HSNO Approval Number HSR002530.

Group standard Cleaning Products (Subsidiary Hazard) Group Standard 2017

Inventory Listing(s) New Zealand: NZIoC (New Zealand Inventory of Chemicals)
All components are listed on the NZIoC inventory, or are exempt

SECTION 16: Other information

The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract

SDS code: MS32000077 **Version:** 01.0 **Revision:** 2018-12-03

Reason for revision:

This data sheet contains changes from the previous version in section(s):, 15, 2, 3, 16

Exposure standards - Time Weighted Average (TWA) or Workplace Exposure Standard (WES) (NZ): Exposure standards are established on the premise of an 8 hour work period of normal intensity, under normal climatic conditions and where a 16 hour break between shifts exists to enable the body to eliminate absorbed contaminants. In the following circumstances, exposure standards must be reduced: strenuous work conditions; hot, humid climates; high altitude conditions; extended shifts (which increase the exposure period and shorten the period of recuperation).

Abbreviations and acronyms:

- DNEL - Derived No Effect Limit
- AUH - GHS Specific hazard statement
- PNEC - Predicted No Effect Concentration
- ATE - Acute Toxicity Estimate
- LD50 - Lethal Dose, 50% / Median Lethal dose
- LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- EC50 - effective concentration, 50%
- NOEL - No observed effect level

- NOAEL - No observed adverse effect level
- STOT-RE - Specific target organ toxicity (repeated exposure)
- STOT-SE - Specific target organ toxicity (single exposure)
- EC No. - European Community Number
- OECD - Organization for Economic Cooperation and Development

End of Safety Data Sheet