

Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the New Zealand, Hazardous Substances (Safety Data Sheets) Notice 2017.

SECTION 1: Identification

1.1. Product identifier

Sharpshooter[™] Extra Strength No Rinse Mark Remover

Product Identification Numbers 70-0712-8533-5

1.2. Recommended use and restrictions on use

Recommended use

This no-rinse cleaner removes tough stains such as grease, lipstick, crayon, black heel marks, pencil marks and smoke film from most washable hard surfaces. Hard Surface Cleaner

For Industrial or Professional use only

1.3. Supplier's details

Address:3M New Zealand Ltd, 94 Apollo Drive, Rosedale 0632, AucklandTelephone:(09) 477 4040E Mail:innovation@nz.mmm.comWebsite:3m.co.nz

1.4. Emergency telephone number

24 hr Medical Emergency, National Poisons Centre, 0800 764 766 (0800 POISON)

SECTION 2: Hazard identification

Classified as hazardous in accordance with the relevant criteria of the HSNO Act 1996 and the Hazardous Substances (Hazard Classification) Notice 2020.

Refer to Section 14 of this Safety Data Sheet for product Dangerous Goods Classification.

2.1. Classification of the substance or mixture

Skin corrosion: Category 1B Serious eye damage: Category 1

2.2. Label elements SIGNAL WORD Danger **Symbols:** Corrosion |

Pictograms

HAZARD STATEMENTS:			
H314	Causes severe skin burns and eye damage.		
PRECAUTIONARY STATEM	IENTS		
General			
P101	If medical advice is needed, have product container or label at hand.		
P102	Keep out of reach of children.		
Prevention			
P260	Do not breathe dust/fume/gas/mist/vapours/spray.		
P264	Wash thoroughly after handling.		
P280D	Wear protective gloves, protective clothing, and eye/face protection.		
Response			
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.		
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.		
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.		
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
P310	Immediately call a POISON CENTER or doctor/physician.		
P363	Wash contaminated clothing before reuse.		
Storage			
P405	Store locked up.		
Disposal			
P501	Dispose of contents/container in accordance with applicable local/regional/national/international regulations.		

2.3. Other hazards

May cause chemical gastrointestinal burns.

SECTION 3: Composition/information on ingredients

Ingredient	CAS Nbr	% by Weight
Water	7732-18-5	80 - 95
2-Butoxyethanol	111-76-2	3 - 6
2-Aminoethanol	141-43-5	1 - 5
Alcohols, C12-14-secondary, ethoxylated	84133-50-6	0.5 - 1.5
Alcohols, C6-12 Ethoxylated	68439-45-2	0.5 - 1.5
Potassium Hydroxide	1310-58-3	< 1
	68585-36-4	< 0.5
14-Alkyl Ethers, Phosphates		

Tetrasodium ethylenediaminetetraacetate	64-02-8	< 0.5

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

Remove person to fresh air. If you feel unwell, get medical attention.

Skin contact

Immediately flush with large amounts of water for at least 15 minutes. Remove contaminated clothing. Get immediate medical attention. Wash clothing before reuse.

Eve contact

Immediately flush with large amounts of water for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately get medical attention.

A product risk assessment is recommended to determine if eye wash facilities may be required when using this product in the workplace.

If swallowed

Rinse mouth. Do not induce vomiting. Get immediate medical attention.

4.2. Most important symptoms and effects, both acute and delayed

No critical symptoms or effects. See Section 11.1, information on toxicological effects.

4.3. Indication of any immediate medical attention and special treatment required

Not applicable.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Material will not burn. Use a fire fighting agent suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

5.3. Special protective actions for fire-fighters

No special protective actions for fire-fighters are anticipated.

5.4. Hazchem code: 2X

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions

Avoid release to the environment. For larger spills, cover drains and build dykes to prevent entry into sewer systems or bodies of water.

6.3. Methods and material for containment and cleaning up

Contain spill. For large spills, if necessary, get assistance from professional spill clean up team. For small spills, carefully

neutralise spill by adding appropriate dilute acid such as vinegar. Work slowly to avoid boiling or spattering. Continue to add neutralising agent until reaction stops. Let cool before collecting. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a metal container approved for use in transportation by appropriate authorities. The container must be lined with polyethylene plastic or contain a plastic drum liner made of polyethylene. Clean up residue with water. Cover, but do not seal for 48 hours. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

SECTION 7: Handling and storage

Refer to Section 15 - Controls for more information

7.1. Precautions for safe handling

Keep out of reach of children. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse. Keep away from reactive metals (eg. Aluminum, zinc etc.) to avoid the formation of hydrogen gas that could create an explosion hazard.

7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Protect from sunlight. Store away from acids. Store away from areas where product may come into contact with food or pharmaceuticals.

7.3. Certified handler

Not required

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	CAS Nbr	Agency	Limit type	Additional comments
2-Butoxyethanol	111-76-2	ACGIH	TWA:20 ppm	A3: Confirmed animal carcinogen.
2-Butoxyethanol	111-76-2	New Zealand WES	TWA(8 hours):121 mg/m3(25 ppm)	Skin
Potassium Hydroxide	1310-58-3	ACGIH	CEIL:2 mg/m3	
Potassium Hydroxide	1310-58-3	New Zealand WES	CEIL:2 mg/m3	
2-Aminoethanol	141-43-5	ACGIH	TWA:3 ppm;STEL:6 ppm	
2-Aminoethanol	141-43-5	New Zealand WES	TWA(8 hours): 7.5 mg/m3(3 ppm); STEL(15 minutes): 15 mg/m3(6 ppm)	

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines New Zealand WES : New Zealand Workplace Exposure Standards.

New Zealand WES : New Zealand Workpla TWA: Time-Weighted-Average STEL: Short Term Exposure Limit ppm: parts per million

mg/m³: milligrams per cubic metre CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapours/spray. If ventilation is not adequate, use respiratory protection equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended: Full face shield. Indirect vented goggles.

Refer AS/NZS 1336 - Recommended practices for occupational eye protection and for performance specifications AS/NZS 1337, Parts 1 - 6 - Personal eye-protection.

Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity. Gloves made from the following material(s) are recommended: Polymer laminate

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron - polymer laminate

Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapors

For questions about suitability for a specific application, consult with your respirator manufacturer.

Refer AS/NZS 1715 - Selection, use and maintenance of respiratory protective equipment and AS/NZS 1716 - Respiratory protective devices.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Liquid.		
Colourless		
Mild Solvent		
Not applicable.		
12.5 - 13.5		
Not applicable.		
> 100 °C		
No flash point		
± 1 [<i>Ref Std</i> :WATER=1]		
Not applicable.		
Not applicable.		

Flammable Limits(UEL)	Not applicable.	
Vapour pressure	< 186,158.4 Pa [@ 55 °C]	
Vapour Density and/or Relative Vapour Density	Not applicable.	
Density	± 1.002 g/ml	
Relative density	$\pm 1.001 - 1.011$ [<i>Ref Std</i> :WATER=1]	
Water solubility	Complete	
Solubility- non-water	Not applicable.	
Partition coefficient: n-octanol/water	Not applicable.	
Autoignition temperature	Not applicable.	
Decomposition temperature	Not applicable.	
Viscosity/Kinematic Viscosity	< 100 mPa-s	
Volatile organic compounds (VOC)	6 - 8 % weight [<i>Test Method</i> :calculated per CARB title 2]	
Percent volatile	80 - 100 % weight	
VOC less H2O & exempt solvents	850 - 870 g/l [<i>Test Method</i> :calculated per CARB title 2]	

SECTION 10: Stability and reactivity

10.1 Reactivity

This material is considered to be non reactive under normal use conditions

10.2 Chemical stability

Stable.

10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

10.4 Conditions to avoid

None known.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

Substance Carbon monoxide. Carbon dioxide. Oxides of nitrogen. <u>Condition</u> Not specified. Not specified. Not specified.

SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labelling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1 Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation

Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose

and throat pain.

Skin contact

Corrosive (skin burns): Signs/symptoms may include localised redness, swelling, itching, intense pain, blistering, ulceration, and tissue destruction.

Eye contact

Corrosive (eye burns): Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.

Ingestion

Gastrointestinal corrosion: Signs/symptoms may include severe mouth, throat and abdominal pain, nausea, vomiting, and diarrhea; blood in the faeces and/or vomitus may also be seen.

Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute Toxicity

Name	Route	Species	Value
Overall product	Dermal		No data available; calculated ATE >5,000 mg/kg
Overall product	Inhalation- Vapor(4 hr)		No data available; calculated ATE >50 mg/l
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
2-Butoxyethanol	Dermal	Guinea pig	LD50 > 2,000 mg/kg
2-Butoxyethanol	Inhalation- Vapor (4 hours)	Guinea pig	LC50 > 2.6 mg/l
2-Butoxyethanol	Ingestion	Guinea pig	LD50 1,200 mg/kg
2-Aminoethanol	Inhalation- Vapor	official classifica tion	LC50 estimated to be 10 - 20 mg/l
2-Aminoethanol	Dermal	Rabbit	LD50 2,504 mg/kg
2-Aminoethanol	Ingestion	Rat	LD50 1,089 mg/kg
Alcohols, C6-12 Ethoxylated	Dermal	Rabbit	LD50 1,500 mg/kg
Alcohols, C12-14-secondary, ethoxylated	Dermal	Rat	LD50 > 14,000 mg/kg
Alcohols, C12-14-secondary, ethoxylated	Inhalation- Dust/Mist (4 hours)	Rat	LC50 1.1 mg/l
Alcohols, C12-14-secondary, ethoxylated	Ingestion	Rat	LD50 > 412 mg/kg
Alcohols, C6-12 Ethoxylated	Ingestion	Rat	LD50 5,100 mg/kg
Potassium Hydroxide	Dermal	Rabbit	LD50 > 1,260 mg/kg
Potassium Hydroxide	Ingestion	Rat	LD50 273 mg/kg
Tetrasodium ethylenediaminetetraacetate	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 1.5 mg/l
Tetrasodium ethylenediaminetetraacetate	Ingestion	Rat	LD50 1,658 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Overall product	In vitro	Corrosive
	data	
2-Butoxyethanol	Rabbit	Irritant
2-Aminoethanol	Rabbit	Corrosive
Alcohols, C12-14-secondary, ethoxylated	Professio	Irritant
	nal	
	judgemen	

	t	
Potassium Hydroxide	Rabbit	Corrosive
Tetrasodium ethylenediaminetetraacetate	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
2-Butoxyethanol	Rabbit	Severe irritant
2-Aminoethanol	Rabbit	Corrosive
Alcohols, C12-14-secondary, ethoxylated	Professio	Corrosive
	nal	
	judgemen	
	t	
Potassium Hydroxide	Rabbit	Corrosive
Tetrasodium ethylenediaminetetraacetate	Rabbit	Corrosive

Sensitisation:

Skin Sensitisation

Name	Species	Value
2-Butoxyethanol	Guinea	Not classified
	pig	
2-Aminoethanol	Guinea	Not classified
	pig	
Alcohols, C12-14-secondary, ethoxylated	Human	Not classified
Tetrasodium ethylenediaminetetraacetate	Human	Not classified
	and	
	animal	

Respiratory Sensitisation

For the component/components, either no data are currently available or the data are not sufficient for classification.

Germ Cell Mutagenicity

Name	Route	Value
2-Butoxyethanol	In Vitro	Some positive data exist, but the data are not sufficient for classification
2-Aminoethanol	In Vitro	Not mutagenic
2-Aminoethanol	In vivo	Not mutagenic
Tetrasodium ethylenediaminetetraacetate	In Vitro	Some positive data exist, but the data are not sufficient for classification
Tetrasodium ethylenediaminetetraacetate	In vivo	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
2-Butoxyethanol	Inhalation	Multiple	Some positive data exist, but the data are not
		animal	sufficient for classification
		species	
Tetrasodium ethylenediaminetetraacetate	Ingestion	Multiple	Not carcinogenic
	-	animal	_
		species	

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
2-Butoxyethanol	Dermal	Not classified for development	Rat	NOAEL 1,760 mg/kg/day	during gestation

2-Butoxyethanol	Ingestion	Not classified for development	Rat	NOAEL 100 mg/kg/day	during organogenesis
2-Butoxyethanol	Inhalation	Not classified for development	Multiple animal species	NOAEL 0.48 mg/l	during organogenesis
2-Aminoethanol	Dermal	Not classified for development	Rat	NOAEL 225 mg/kg/day	during organogenesis
2-Aminoethanol	Ingestion	Not classified for development	Rat	NOAEL 616 mg/kg/day	during organogenesis
Tetrasodium ethylenediaminetetraacetate	Ingestion	Not classified for female reproduction	Rat	NOAEL 250 mg/kg/day	4 generation
Tetrasodium ethylenediaminetetraacetate	Ingestion	Not classified for male reproduction	Rat	NOAEL 250 mg/kg/day	4 generation
Tetrasodium ethylenediaminetetraacetate	Ingestion	Not classified for development	Rat	LOAEL 1,000 mg/kg/day	during gestation

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
2-Butoxyethanol	Dermal	endocrine system	Not classified	Rabbit	NOAEL 902 mg/kg	6 hours
2-Butoxyethanol	Dermal	liver	Not classified	Rabbit	LOAEL 72 mg/kg	not available
2-Butoxyethanol	Dermal	kidney and/or bladder	Not classified	Rabbit	LOAEL 451 mg/kg	6 hours
2-Butoxyethanol	Dermal	blood	Not classified	Multiple animal species	NOAEL Not available	
2-Butoxyethanol	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
2-Butoxyethanol	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	
2-Butoxyethanol	Inhalation	blood	Not classified	Multiple animal species	NOAEL Not available	
2-Butoxyethanol	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professio nal judgeme nt	NOAEL Not available	
2-Butoxyethanol	Ingestion	blood	Not classified	Multiple animal species	NOAEL Not available	
2-Butoxyethanol	Ingestion	kidney and/or bladder	Not classified	Human	NOAEL Not available	poisoning and/or abuse
2-Aminoethanol	Inhalation	respiratory irritation	May cause respiratory irritation	Human and animal	NOAEL Not available	
Alcohols, C12-14- secondary, ethoxylated	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
Potassium Hydroxide	Inhalation	respiratory irritation	May cause respiratory irritation	Human	NOAEL not available	
Tetrasodium ethylenediaminetetraacetat e	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	Irritation Positive	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure
						Duration
2-Butoxyethanol	Dermal	blood	Not classified	Multiple animal	NOAEL Not available	not available
				species		

2-Butoxyethanol	Dermal	endocrine system	Not classified	Rabbit	NOAEL 150 mg/kg/day	90 days
2-Butoxyethanol	Inhalation	liver	Not classified	Rat	NOAEL 2.4 mg/l	14 weeks
2-Butoxyethanol	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 0.15 mg/l	14 weeks
2-Butoxyethanol	Inhalation	blood	Not classified	Rat	LOAEL 0.15 mg/l	6 months
2-Butoxyethanol	Inhalation	endocrine system	Not classified	Dog	LOAEL 1.9 mg/l	8 days
2-Butoxyethanol	Ingestion	blood	Not classified	Rat	LOAEL 69 mg/kg/day	13 weeks
2-Butoxyethanol	Ingestion	kidney and/or bladder	Not classified	Multiple animal species	NOAEL Not available	not available
2-Aminoethanol	Inhalation	liver kidney and/or bladder respiratory system	Not classified	Multiple animal species	NOAEL 0.656 mg/l	5 weeks
2-Aminoethanol	Ingestion	hematopoietic system liver kidney and/or bladder respiratory system	Not classified	Rat	NOAEL Not available	
Tetrasodium ethylenediaminetetraacetat e	Inhalation	respiratory system	Causes damage to organs through prolonged or repeated exposure	Rat	NOAEL 3 mg/m3	13 weeks
Tetrasodium ethylenediaminetetraacetat e	Inhalation	liver heart skin endocrine system gastrointestinal tract bone, teeth, nails, and/or hair hematopoietic system immune system muscles nervous system eyes kidney and/or bladder vascular system	Not classified	Rat	NOAEL 15 mg/m3	13 weeks
Tetrasodium ethylenediaminetetraacetat e	Ingestion	hematopoietic system liver	Not classified	Rat	NOAEL 2,500 mg/kg/day	13 weeks
Tetrasodium ethylenediaminetetraacetat e	Ingestion	heart gastrointestinal tract muscles kidney and/or bladder respiratory system	Not classified	Rat	NOAEL 5,000 mg/kg/day	13 weeks

Aspiration Hazard

For the component/components, either no data are currently available or the data are not sufficient for classification.

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

SECTION 12: Ecological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labelling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

12.1. Toxicity

Ecotoxic to terrestrial vertebrates

Hazardous to terrestrial vertebrates

No product test data available.

Material	CAS Number	Organism	Туре	Exposure	Test endpoint	Test result
2-	111-76-2	Activated	Experimental	16 hours	IC50	>1,000 mg/l
Butoxyethanol		sludge	_			
2-	111-76-2	Eastern oyster	Experimental	96 hours	LC50	89.4 mg/l
Butoxyethanol			_			
2-	111-76-2	Green algae	Experimental	72 hours	ErC50	1,840 mg/l
Butoxyethanol		_	_			
2-	111-76-2	Rainbow trout	Experimental	96 hours	LC50	1,474 mg/l
Butoxyethanol						
2-	111-76-2	Water flea	Experimental	48 hours	EC50	1,550 mg/l
Butoxyethanol						
2-	111-76-2	Green algae	Experimental	72 hours	ErC10	679 mg/l
Butoxyethanol						
2-	111-76-2	Water flea	Experimental	21 days	NOEC	100 mg/l
Butoxyethanol						
2-	141-43-5	Diatom	Experimental	72 hours	ErC50	198 mg/l
Aminoethanol			_			_
2-	141-43-5	Green algae	Experimental	72 hours	ErC50	2.5 mg/l
Aminoethanol		_	_			_
2-	141-43-5	Rainbow trout	Experimental	96 hours	LC50	105 mg/l
Aminoethanol			_			
2-	141-43-5	Water flea	Experimental	48 hours	EC50	27.04 mg/l
Aminoethanol						
2-	141-43-5	Green algae	Experimental	72 hours	NOEC	1 mg/l
Aminoethanol		_	_			
2-	141-43-5	Medaka	Experimental	41 days	NOEC	1.24 mg/l
Aminoethanol			_			
2-	141-43-5	Water flea	Experimental	21 days	NOEC	0.85 mg/l
Aminoethanol						
2-	141-43-5	Activated	Experimental	30 minutes	IC50	>1,000 mg/l
Aminoethanol		sludge				
	141-43-5	Plant	Experimental	21 days	EC50	1,290 mg/kg (Dry
Aminoethanol						Weight)
2-	141-43-5	Redworm	Experimental	35 days	LC50	3,715 mg/kg (Dry
Aminoethanol						Weight)
2-	141-43-5	Springtail	Experimental	28 days	LC50	1,893 mg/kg (Dry
Aminoethanol						Weight)
Alcohols, C12-	84133-50-6	Fathead	Estimated	96 hours	LC50	3.2 mg/l
14-secondary,		minnow				
ethoxylated						
	84133-50-6	Water flea	Estimated	48 hours	EC50	7.3 mg/l
14-secondary,						
ethoxylated						
	68439-45-2	N/A	Data not	N/A	N/A	N/A
12 Ethoxylated			available or			
			insufficient for			
			classification			
	1310-58-3	N/A	Data not	N/A	N/A	N/A
Hydroxide			available or			
			insufficient for			

			classification			
Poly(Oxy-1,2- Ethanediyl), .A lpha HydroOmega. - Hydroxy-,Mon o-c10-14-Alkyl Ethers,	68585-36-4	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Phosphates Tetrasodium ethylenediamin etetraacetate	64-02-8	Bluegill	Experimental	96 hours	LC50	401.7 mg/l
Tetrasodium ethylenediamin etetraacetate	64-02-8	Green algae	Experimental	72 hours	ErC50	>100 mg/l
Tetrasodium ethylenediamin etetraacetate	64-02-8	Water flea	Experimental	24 hours	EC50	610 mg/l
Tetrasodium ethylenediamin etetraacetate	64-02-8	Water flea	Analogous Compound	21 days	NOEC	25 mg/l
Tetrasodium ethylenediamin etetraacetate	64-02-8	Zebra Fish	Analogous Compound	35 days	NOEC	35.1 mg/l
Tetrasodium ethylenediamin etetraacetate	64-02-8	Green algae	Experimental	72 hours	ErC10	>100 mg/l
Tetrasodium ethylenediamin etetraacetate	64-02-8	Plant	Analogous Compound	21 days	NOEC	84 mg/kg (Dry Weight)
Tetrasodium ethylenediamin etetraacetate	64-02-8	Redworm	Analogous Compound	14 days	LC50	156.46 mg/kg (Dry Weight)
Tetrasodium ethylenediamin etetraacetate	64-02-8	Activated sludge	Experimental	30 minutes	EC10	>1,000 mg/l

12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
2-	111-76-2	Experimental	28 days	CO2 evolution	90.4 %CO2	OECD 301B - Modified
Butoxyethanol		Biodegradation			evolution/THC	sturm or CO2
					O2 evolution	
2-	111-76-2	Experimental	28 days	Dissolv.	100 % removal	OECD 302B Zahn-
Butoxyethanol		Biodegradation		Organic	of DOC	Wellens/EVPA
				Carbon Deplet		
2-	141-43-5	Experimental	28 days	CO2 evolution	80 %CO2	
Aminoethanol		Biodegradation			evolution/THC	
					O2 evolution	
2-	141-43-5	Experimental	21 days	Dissolv.	>90 % removal	OECD 301A - DOC
Aminoethanol		Biodegradation		Organic	of DOC	Die Away Test
				Carbon Deplet		
2-	141-43-5	Experimental		Photolytic half-	5.5 hours (t	
Aminoethanol		Photolysis		life (in air)	1/2)	

Alcohols, C12- 14-secondary, ethoxylated	84133-50-6	Estimated Biodegradation		BOD	>60 %BOD/C OD	OECD 301F - Manometric respirometry
Alcohols, C6- 12 Ethoxylated	68439-45-2	Analogous Compound Biodegradation	28 days	CO2 evolution	85 %CO2 evolution/THC O2 evolution	OECD 301B - Modified sturm or CO2
Potassium Hydroxide	1310-58-3	Data not availbl- insufficient	N/A	N/A	N/A	N/A
Poly(Oxy-1,2- Ethanediyl), .A lpha HydroOmega. - Hydroxy-,Mon o-c10-14-Alkyl Ethers, Phosphates	68585-36-4	Data not availbl- insufficient	N/A	N/A	N/A	N/A
Tetrasodium ethylenediamin etetraacetate	64-02-8	Analogous Compound Biodegradation	28 days	BOD	2 %BOD/ThO D	OECD 301D - Closed bottle test
Tetrasodium ethylenediamin etetraacetate	64-02-8	Experimental Aquatic Inherent Biodegrad.	28 days	Dissolv. Organic Carbon Deplet	<10 % removal of DOC	OECD 302B Zahn- Wellens/EVPA
Tetrasodium ethylenediamin etetraacetate	64-02-8	Analogous Compound Soil Inherent Biodegradabilit y	315 days	CO2 evolution	70.5 %CO2 evolution/THC O2 evolution	

12.3 : Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
2- Butoxyethanol	111-76-2	Experimental Bioconcentrati		Log Kow	0.81	
2- Aminoethanol	141-43-5	on Experimental Bioconcentrati on		Log Kow	-2.3	OECD 107 log Kow shke flsk mtd
Alcohols, C12- 14-secondary, ethoxylated	84133-50-6	Estimated Bioconcentrati on		Log Kow	2.72	
Alcohols, C6- 12 Ethoxylated	68439-45-2	Analogous Compound BCF - Fish	72 hours	Bioaccumulatio n factor	310	
Potassium Hydroxide	1310-58-3	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Poly(Oxy-1,2- Ethanediyl), .A lpha HydroOmega. -	68585-36-4	Data not available or insufficient for classification	N/A	N/A	N/A	N/A

Hydroxy-,Mon o-c10-14-Alkyl Ethers, Phosphates					
Tetrasodium ethylenediamin etetraacetate	Analogous Compound BCF - Fish	5	Bioaccumulatio n factor	1.8	
Tetrasodium ethylenediamin etetraacetate	Analogous Compound Bioconcentrati on		Log Kow	-4.3	

12.4. Mobility in soil

Please contact manufacturer for more details

12.5 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Disposal methods

In accordance with the Hazardous Substances (Disposal) Notice 2017 and the relevant criteria of the HSNO Act 1996.

Dispose of waste product in a permitted industrial waste facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

Packaging (that may or may not contain any residual substance) may be lawfully disposed of by householders or other consumers through public or commercial waste collection services.

SECTION 14: Transport Information

New Zealand Land Transport Rule: Dangerous Goods - Road/Rail Transport UN No.: UN3267 Proper Shipping Name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. , (Ethanolamine, Potassium Hydroxide) Class/Division: 8 Sub Risk: Not applicable. Packing Group: III Special Instructions: Limited quantity may apply Hazchem Code: 2X IERG: 37

International Air Transport Association (IATA) - Air Transport UN No.: UN3267 Proper Shipping Name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S., (Ethanolamine, Potassium Hydroxide) Class/Division: 8 Sub Risk: Not applicable. Packing Group: III

International Maritime Dangerous Goods Code (IMDG) - Marine Transport UN No.: UN3267 Proper Shipping Name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S., (Ethanolamine, Potassium Hydroxide) Class/Division: 8 Sub Risk: Not applicable. Packing Group: III Marine Pollutant: Not applicable. Special Instructions: Limited quantity may apply

SECTION 15: Regulatory information

HSNO Approval numberHSR002526Group standard nameCleaning Products (Corrosive) Group Standard 2020HSNO Hazard classificationRefer to Section 2: Hazard identification

NZ Inventory of Chemicals (NZIoC) Status

All applicable chemical ingredients in this material are in compliance with NZIoC listing requirements.

Controls in accordance with The Health and Safety at Work Act 2015, Health and Safety at Work (Hazardous Substances) Regulations 2017 and the HSNO Act 1996, Hazardous Substances (Hazardous Property Controls) Notice 2017

2017	
Certified handler	Not required
Location Compliance Certificate	Not required
Hazardous atmosphere zone	Not required
Fire extinguishers	Not required
Emergency response plan	100 L or 100 kg (for Hazardous to the aquatic environment Category 1
	substances); or 1 000 L or 1 000 kg (for Acute toxicity Category 4, Skin
	sensitisation Category 1, Respiratory sensitisation Category 1, Skin corrosion
	Category 1B, Hazardous to the aquatic environment Category 2 or Hazardous
	to the aquatic environment Category 3 substances); or 10 000 L or 10 000 kg
	(for all other substances)
Secondary containment	100 L or 100 kg (for Hazardous to the aquatic environment Category 1
	substances); or 1 000 L or 1 000 kg (for Acute toxicity Category 4, Skin
	sensitisation Category 1, Respiratory sensitisation Category 1, Skin corrosion
	Category 1B, Hazardous to the aquatic environment Category 2 or Hazardous
	to the aquatic environment Category 3 substances); or 10 000 L or 10 000 kg
	(for all other substances)
Tracking	Not required
Warning signage	100 L or 100 kg (for Hazardous to the aquatic environment Category 1
	substances); or 250 L or 250 kg (for Skin corrosion Category 1B substances);
	or 1 000 L or 1 000 kg (for all other substances)

SECTION 16: Other information

Revision information:

Complete document review.

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Key to abbreviations and acronyms

GHS refers to the Globally Harmonised System of Classification and Labelling of Chemicals, 7th revised edition of 2017 **HSNO** means Hazardous Substances and New Organisms Act 1996

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