



Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the New Zealand, Hazardous Substances and New Organisms Act 1996 (HSNO Act) and Regulations, as amended.

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

1.3. Supplier's details

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

1.4. Emergency telephone number

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

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classified as hazardous according to the New Zealand, Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001 as amended.

Classified as a Dangerous Good according to; New Zealand, Land Transport Rule: Dangerous Goods 2005 (Rule 45001/1) as amended, NZS 5433:2012 Transport of Dangerous Goods on Land, UN Model Regulations on the Transport of Dangerous Goods, International Maritime Dangerous Goods Code and IATA Dangerous Goods Regulations. For transport classification, refer to SECTION 14: Transport Information.

HSNO classification

8.2B Corrosive to skin

8.3A Corrosive to eye

6.1E Acute toxicity

6.9A Toxic to human target organs/systems

9.1D Aquatic toxicity

2.2. Label elements

SIGNAL WORD

DANGER!

Symbols:

Health Hazard | Corrosion |

Pictograms



HAZARD STATEMENTS:

H333

May be harmful if inhaled.

H314

Causes severe skin burns and eye damage.

H370

Causes damage to organs:
blood or blood-forming organs |

H372

Causes damage to organs through prolonged or repeated exposure:

H402

Harmful to aquatic life.

PRECAUTIONARY STATEMENTS

General:

P101

If medical advice is needed, have product container or label at hand.

P102

Keep out of reach of children.

P103

Read label before use.

Prevention:

P104

Read Safety Data Sheet before use.

P260

Do not breathe dust/fume/gas/mist/vapours/spray.

P280D

Wear protective gloves, protective clothing, and eye/face protection.

Response:

P304 + P312

IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.

P303 + P361 + P353

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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.

P307 + P311

IF exposed: Call a POISON CENTER or doctor/physician.

P331

Do NOT induce vomiting.

P301 + P330 + P331

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Storage:

P405

Store locked up.

Disposal:

P501

Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

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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 - 7
2-Aminoethanol	141-43-5	1 - 5
Alcohols, C6-12, ethoxylated	68439-45-2	0.5 - 1.5
Alcohols, C12-14-secondary, ethoxylated	84133-50-6	0.5 - 1.5

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.

Eye 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

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. Non-combustible. Use a fire fighting agent suitable for 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.

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 vapours, in accordance with good industrial hygiene practice. Warning: A motor could be an ignition

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source and could cause flammable gases or vapours in the spill area to burn or explode. 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.

SECTION 7: Handling and storage

Refer to Section 15: HSNO Controls for more information.

7.1. Precautions for safe handling

Do not use in a confined area with minimal air exchange. 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 away from acids. Store away from areas where product may come into contact with food or pharmaceuticals.

7.3. Approved handler test certificate

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	New Zealand WES	TWA(8 hours):121 mg/m3(25 ppm)	Skin Notation
2-Butoxyethanol	111-76-2	ACGIH	TWA:20 ppm	A3: Confirmed animal carcinogen.
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.

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

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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: Butyl rubber.

Nitrile rubber.

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 – Butyl rubber

Apron – Nitrile

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

Physical state

Liquid.

Appearance/Odour

Clear, colourless; mild solvent odour.

Odour threshold

Not applicable.

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pH	12.7 - 13.4
Boiling point/Initial boiling point/Boiling range	> 100 °C
Flash point	No flash point
Evaporation rate	± 1 [Ref Std: WATER=1]
Flammability (solid, gas)	Not applicable.
Flammable Limits(LEL)	Not applicable.
Flammable Limits(UEL)	Not applicable.
Vapour pressure	< 186,158.4 Pa [@ 55 °C]
Density	± 1.002 g/ml
Relative density	± 1.001 - 1.011 [Ref Std: WATER=1]
Water solubility	Complete
Solubility- non-water	Not applicable.
Autoignition temperature	Not applicable.
Decomposition temperature	Not applicable.
Viscosity	< 0.1 Pa-s
Volatile organic compounds (VOC)	6 - 8 % weight [Test Method:calculated per CARB title 2]
Percent volatile	80 - 100 % weight
VOC less H2O & exempt solvents	850 - 870 g/l [Test Method: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

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

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

Inhalation

May be harmful if inhaled. Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. May cause additional health effects (see below).

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. May cause additional health effects (see below).

Additional Health Effects:**Single exposure may cause target organ effects:**

Blood effects: Signs/symptoms may include generalised weakness and fatigue, skin pallor, changes in blood clotting time, internal bleeding, and hemoglobinemia.

Prolonged or repeated exposure may cause target organ effects:

Blood effects: Signs/symptoms may include generalised weakness and fatigue, skin pallor, changes in blood clotting time, internal bleeding, and hemoglobinemia.

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 ATE20 - 50 mg/l
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
2-Butoxyethanol	Dermal	Rabbit	LD50 400 mg/kg
2-Butoxyethanol	Inhalation-Vapor (4 hours)	Rat	LC50 2.2 mg/l
2-Butoxyethanol	Ingestion	Rat	LD50 560 mg/kg
2-Aminoethanol	Inhalation-Vapor	official classification	LC50 estimated to be 10 - 20 mg/l
2-Aminoethanol	Dermal	Rabbit	LD50 1,000 mg/kg
2-Aminoethanol	Ingestion	Rat	LD50 1,720 mg/kg
Alcohols, C12-14-secondary, ethoxylated	Dermal	Rabbit	LD50 1,127 mg/kg
Alcohols, C6-12, ethoxylated	Dermal	Rabbit	LD50 1,500 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

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
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Overall product		Corrosive
2-Butoxyethanol	Rabbit	Irritant
2-Aminoethanol	Rabbit	Corrosive

Serious Eye Damage/Irritation

Name	Species	Value
2-Butoxyethanol	Rabbit	Severe irritant
2-Aminoethanol	Rabbit	Corrosive

Skin Sensitisation

Name	Species	Value
2-Butoxyethanol	Guinea pig	Not sensitizing
2-Aminoethanol	Guinea pig	Some positive data exist, but the data are not sufficient for classification

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

Carcinogenicity

Name	Route	Species	Value
2-Butoxyethanol	Inhalation	Multiple animal species	Some positive data exist, but the data are not sufficient for classification

Reproductive Toxicity**Reproductive and/or Developmental Effects**

Name	Route	Value	Species	Test result	Exposure Duration
2-Butoxyethanol	Dermal	Not toxic to development	Rat	NOAEL 1,760 mg/kg/day	during gestation
2-Butoxyethanol	Ingestion	Some positive developmental data exist, but the data are not sufficient for classification	Rat	NOAEL 100 mg/kg/day	during organogenesis
2-Butoxyethanol	Inhalation	Some positive developmental data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL 0.48 mg/l	during organogenesis
2-Aminoethanol	Dermal	Not toxic to development	Rat	NOAEL 225 mg/kg/day	during organogenesis
2-Aminoethanol	Ingestion	Not toxic to development	Rat	NOAEL 616 mg/kg/day	during organogenesis

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	Some positive data exist, but the data are not sufficient for classification	Rabbit	NOAEL 902 mg/kg	6 hours
2-Butoxyethanol	Dermal	liver	Some positive data exist, but the	Rabbit	LOAEL 72	not available

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			data are not sufficient for classification		mg/kg	
2-Butoxyethanol	Dermal	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rabbit	LOAEL 451 mg/kg	6 hours
2-Butoxyethanol	Dermal	blood	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL Not available	not available
2-Butoxyethanol	Inhalation	blood	May cause damage to organs	Multiple animal species	NOAEL Not available	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	Ingestion	blood	Causes damage to organs	Human	NOAEL Not available	poisoning and/or abuse
2-Butoxyethanol	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	poisoning and/or abuse
2-Aminoethanol	Inhalation	respiratory irritation	May cause respiratory irritation	Human and animal	NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
2-Butoxyethanol	Dermal	blood	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL Not available	not available
2-Butoxyethanol	Dermal	endocrine system	All data are negative	Rabbit	NOAEL 150 mg/kg/day	90 days
2-Butoxyethanol	Inhalation	blood	May cause damage to organs though prolonged or repeated exposure	Rat	NOAEL 0.12 mg/l	90 days
2-Butoxyethanol	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 2.4 mg/l	14 weeks
2-Butoxyethanol	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 0.15 mg/l	14 weeks
2-Butoxyethanol	Inhalation	endocrine system	Some positive data exist, but the data are not sufficient for classification	Dog	LOAEL 1.9 mg/l	8 days
2-Butoxyethanol	Ingestion	blood	Causes damage to organs through prolonged or repeated exposure	Multiple animal species	NOAEL Not available	not available
2-Butoxyethanol	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL Not available	not available
2-Aminoethanol	Inhalation	liver kidney and/or bladder respiratory system	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL 0.656 mg/l	5 weeks
2-Aminoethanol	Ingestion	hematopoietic system liver kidney and/or bladder respiratory system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL Not available	

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 the aquatic environment.

9.1D Aquatic toxicity

No product test data available.

Material	CAS Number	Organism	Type	Exposure	Test endpoint	Test result
Alcohols, C12-14-secondary, ethoxylated	84133-50-6	Channel Catfish	Experimental	96 hours	LC50	3 mg/l
Alcohols, C12-14-secondary, ethoxylated	84133-50-6	Water flea	Experimental	21 days	NOEC	0.77 mg/l
Alcohols, C6-12, ethoxylated	68439-45-2		Data not available or insufficient for classification			
2-Butoxyethanol	111-76-2	Green Algae	Experimental	72 hours	EC50	>1,000 mg/l
2-Butoxyethanol	111-76-2	Water flea	Experimental	48 hours	EC50	1,550 mg/l
2-Butoxyethanol	111-76-2	Rainbow trout	Experimental	96 hours	LC50	1,474 mg/l
2-Butoxyethanol	111-76-2	Crustacea	Experimental	96 hours	EC50	89.4 mg/l
2-Butoxyethanol	111-76-2	Water flea	Experimental	21 days	NOEC	100 mg/l
2-Butoxyethanol	111-76-2	Green Algae	Experimental	72 hours	NOEC	130 mg/l
2-Aminoethanol	141-43-5	Green Algae	Experimental	72 hours	EC50	2.5 mg/l
2-Aminoethanol	141-43-5	Goldfish	Experimental	96 hours	LC50	170 mg/l
2-Aminoethanol	141-43-5	Water flea	Experimental	48 hours	EC50	97 mg/l
2-Aminoethanol	141-43-5	Water flea	Experimental	21 days	NOEC	0.85 mg/l

12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Alcohols, C12-14-secondary, ethoxylated	84133-50-6	Estimated Photolysis		Photolytic half-life (in air)	4.13 hours (t _{1/2})	Other methods
Alcohols, C12-14-secondary,	84133-50-6	Experimental Biodegradation		Dissolv. Organic	71 % weight	OECD 301A - DOC Die Away Test

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ethoxylated				Carbon Deplet		
Alcohols, C6-12, ethoxylated	68439-45-2	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
2-Butoxyethanol	111-76-2	Experimental Biodegradation	14 days	BOD	96 % weight	OECD 301C - MITI test (I)
2-Aminoethanol	141-43-5	Experimental Biodegradation	14 days	BOD	83 % weight	OECD 301C - MITI test (I)

12.3 : Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Alcohols, C12-14-secondary, ethoxylated	84133-50-6	Estimated BCF - Other		Bioaccumulation factor	5.16	Estimated: Bioconcentration factor
Alcohols, C6-12, ethoxylated	68439-45-2	Experimental BCF-Carp	72 hours	Bioaccumulation factor	310	Other methods
2-Butoxyethanol	111-76-2	Experimental Bioconcentration		Log Kow	0.83	Other methods
2-Aminoethanol	141-43-5	Experimental Bioconcentration		Log Kow	-1.31	Other methods

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**

See Section 11.1 Information on toxicological effects

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

70-0712-8533-5

NEW ZEALAND LAND TRANSPORT:

UN3267, CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S., (ethanolamine and potassium hydroxide), 8, III LIMITED QUANTITY

IATA: International Air Transport Association

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UN3267, CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S., (ethanolamine and potassium hydroxide), 8, III

IMO: International Maritime Organization

UN3267, CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S., (ethanolamine and potassium hydroxide), 8, III, LIMITED QUANTITY

SECTION 15: Regulatory information

HSNO Approval number	HSR002526
Group standard name	Cleaning Products (Corrosive) Group Standard 2006
HSNO Hazard classification	Refer to Section 2: Hazard identification

NZ Inventory of Chemicals (NZIoC) Status

All ingredients are listed on the New Zealand Inventory of Chemicals.

HSNO Controls

Approved handler test certificate	Not required
Location and transit Depot certification test	Not required
Hazardous atmosphere zone	Not required
Fire extinguishers	Not required
Emergency response plan	100 L or 100 kg (for a HSNO 9.1A substance); or 1,000 L or 1,000 kg (for a HSNO 6.1D, 6.5A, 6.5B, 8.2B, 9.1B or 9.1C substance); or 10,000 L or 10,000 kg (for all other substances)
Secondary containment	100 L or 100 kg (for a HSNO 9.1A substance); or 1,000 L or 1,000 kg (for a HSNO 6.1D, 6.5A, 6.5B, 8.2B, 9.1B or 9.1C substance); or 10,000 L or 10,000 kg (for all other substances)
Tracking	Not required
Warning signage	100 L or 100 kg (for a HSNO 9.1A substance); or 250 L or 250 kg (for a HSNO 8.2B substance); or 1,000 L or 1,000 kg (for all other substances)

SECTION 16: Other information

Revision information:

Revision Changes:

Section 1: Product name information was modified.

Section 8: Skin protection - recommended gloves information information was modified.

Page Heading: Product name information was modified.

Section 9: pH information information was modified.

Section 3: Composition table % by Wt Column heading information was modified.

Section 1: Product identification numbers heading information was modified.

Section 1: Product identification numbers heading information was modified.

Section 9: Relative density information information was modified.

Section 9: Flammability (solid, gas) information information was modified.

Section 9: Flash point information information was modified.

Section 9: Property description for optional properties information was modified.

Section 1: Initial issue message information was modified.

Section 8: Occupational exposure limit table information was modified.

OEL Reg Agency Desc information was modified.

Section 11: Acute Toxicity table information was modified.

Section 11: Carcinogenicity Table information was modified.

Section 11: Serious Eye Damage/Irritation Table information was modified.

Section 11: Germ Cell Mutagenicity Table information was modified.

Section 11: Additional Health Effects heading information was modified.

Section 11: Skin Sensitization Table information was modified.

Section 11: Reproductive Toxicity Table information was modified.

Section 11: Skin Corrosion/Irritation Table information was modified.
Section 11: Target Organs - Repeated Table information was modified.
Section 11: Target Organs - Single Table information was modified.
Section 11: Health Effects - Skin information information was modified.
Section 11: Health Effects - Inhalation information information was modified.
Section 11: Health Effects - Ingestion information information was modified.
Section 5: Fire - Extinguishing media information information was modified.
Section 5: Fire - Advice for fire fighters information information was modified.
Section 6: Accidental release personal information information was modified.
Section 6: Accidental release environmental information information was modified.
Section 6: Accidental release clean-up information information was modified.
Section 7: Precautions safe handling information information was modified.
Section 7: Conditions safe storage information was modified.
Section 8: Personal Protection - Eye information information was modified.
Section 8: Personal Protection - Skin/hand information information was modified.
Section 8: Personal Protection - Respiratory Information information was modified.
Section 10: Hazardous decomposition or by-products table information was modified.
Section 13: 13.1. Waste disposal note information was modified.
Section 13: Standard Phrase Category Waste GHS information was modified.
Section 4: First aid for skin contact information information was modified.
Section 4: First aid for ingestion (swallowing) information information was modified.
Copyright information was modified.
Header section: NZ compliance statement information was modified.
Section 8: Eye protection standard information information was modified.
Section 7: Refer to Section 15 - HSNO control statement information was modified.
Section 15: HSNO approval number. information was modified.
Section 15: Hazardous Atmosphere Zone. information was modified.
Section 15: Refer to section 2 heading information was modified.
New Zealand Inventory of Chemicals. (NZIoC). information was modified.
Section 15: Emergency Response Plan. information was modified.
Section 15: Secondary Containment. information was modified.
Section 15: Warning Signage. information was modified.
Section 2: Classification statements information was modified.
HSNO Classification. information was modified.
Section 2: NZ Health Hazard Statements information was modified.
Section 2: NZ 6.9A Repeated Target Organ Hazard Statements information was modified.
Section 2: NZ Precautionary Statements - Prevention information was modified.
Section 2: NZ Precautionary Statements - Response information was modified.
Section 2: NZ Classification statements (Transportation) information was modified.
Section 8: Respiratory protection - recommended respirators information information was added.
Section 8: Personal Protection - Skin/body information information was added.
Section 8: Skin protection - protective clothing information information was added.
Section 8: Respiratory protection - recommended respirators guide information was added.
Section 12: Component ecotoxicity information information was added.
Section 12: Persistence and Degradability information information was added.
Section 12: Biocumulative potential information information was added.
Section 12: Component Ecotoxicity table Material column header information was added.
Section 12: Component Ecotoxicity table CAS No column header information was added.
Section 12: Component Ecotoxicity table Organism column header information was added.
Section 12: Component Ecotoxicity table Type column header information was added.
Section 12: Component Ecotoxicity table Exposure column header information was added.
Section 12: Component Ecotoxicity table End point column header information was added.
Section 12: Component Ecotoxicity table Result column header information was added.
Section 12: Persistence and degradability table Material column header information was added.
Section 12: Persistence and degradability table CAS No column header information was added.
Section 12: Persistence and degradability table Test Type column header information was added.

Section 12: Persistence and degradability table Duration column header information was added.
Section 12: Persistence and degradability table Test Result column header information was added.
Section 12: Persistence and degradability table Protocol column header information was added.
Section 12:Biocumulative potential table Material column header information was added.
Section 12:Biocumulative potential table CAS No column header information was added.
Section 12:Biocumulative potential table CAS No column header information was added.
Section 12:Biocumulative potential table Test Result column header information was added.
Section 12:Biocumulative potential table Protocol column header information was added.
Section 12:Biocumulative potential table Test Type column header information was added.
Section 8: Occupational exposure limit table information was added.
Section 12: Persistence and degradability table Study Type column header information was added.
Section 12:Biocumulative potential table Test Type column header information was added.
Section 9: Odour Threshold information was added.
Section 9: Solubility (non-water) information was added.
Section 09: Decomposition Temperature information was added.
Section 09: Boiling point/Initial boiling point/Boiling range information was added.
Section 11: Single exposure may cause target organ effects heading information was added.
Section 11: Prolonged or repeated exposure may cause target organ effects heading information was added.
Section 11: Single exposure may cause standard phrases information was added.
Section 11: Prolonged or repeated exposure may cause standard phrases information was added.
Section 11: Disclosed components not in tables text information was added.
Section 11: Aspiration Hazard text information was added.
Section 9: Flammability (solid, gas) information information was added.
GHS Section 1.2 Recommended use and restrictions on use heading information was added.
GHS Section 1.2 Recommended use heading information was added.
GHS Section 1.3 Supplier's details heading information was added.
Label: GHS Supplemental Information information was added.
Section 2: 2.3. NZ Other hazards heading information was added.
Section 8: Respiratory protection standard information information was added.
Section 14: Transportation information information was added.
Section 15: NZ Inventories information information was added.
GHS MSDS Issue Date heading information was added.
GHSSDS Section 13.1. Disposal methods heading information was added.
GHSSDS Section 14 Header information was added.
GHS Section 5.1: Suitable extinguishing media heading information was added.
GHS Section 5.3: Special protective actions for fire-fighters heading information was added.
US Section 01 Product Use - Recommended Use information was added.
Section 11: Respiratory Sensitization text information was added.
Section 11: Skin Sensitization table - Name heading information was added.
Section 11: Skin Sensitization table - Species heading information was added.
Section 11: Skin Sensitization table - Value heading information was added.
Section 11: Serious Eye Damage/Irritation table - Name heading information was added.
Section 11: Serious Eye Damage/Irritation table - Species heading information was added.
Section 11: Serious Eye Damage/Irritation table - Value heading information was added.
Section 11: Skin Corrosion/Irritation table - Name heading information was added.
Section 11: Skin Corrosion/Irritation table - Species heading information was added.
Section 11: Skin Corrosion/Irritation table - Value heading information was added.
Section 11: Germ Cell Mutagenicity table - Name heading information was added.
Section 11: Germ Cell Mutagenicity table - Route heading information was added.
Section 11: Germ Cell Mutagenicity table - Value heading information was added.
Section 11: Specific Target Organ Toxicity - repeated exposure table - Exposure Duration heading information was added.
Section 11: Specific Target Organ Toxicity - repeated exposure table - Route heading information was added.
Section 11: Specific Target Organ Toxicity - repeated exposure table - Target Organ(s) heading information was added.
Section 11: Specific Target Organ Toxicity - repeated exposure table - Value heading information was added.
Section 11: Specific Target Organ Toxicity - repeated exposure table - Species heading information was added.
Section 11: Specific Target Organ Toxicity - repeated exposure table - Test Result heading information was added.

Section 11: Specific Target Organ Toxicity - repeated exposure table - Exposure Duration heading information was added.
Section 11: Specific Target Organ Toxicity - single exposure table - Name heading information was added.
Section 11: Specific Target Organ Toxicity - single exposure table - Route heading information was added.
Section 11: Specific Target Organ Toxicity - single exposure table - Target Organ(s) heading information was added.
Section 11: Specific Target Organ Toxicity - single exposure table - Value heading information was added.
Section 11: Specific Target Organ Toxicity - single exposure table - Species heading information was added.
Section 11: Specific Target Organ Toxicity - single exposure table - Test Result heading information was added.
Section 11: Specific Target Organ Toxicity - single exposure table - Exposure Duration heading information was added.
Section 11: Reproductive and/or Developmental Effects table - Name heading information was added.
Section 11: Reproductive and/or Developmental Effects table - Route heading information was added.
Section 11: Reproductive and/or Developmental Effects table - Value heading information was added.
Section 11: Reproductive and/or Developmental Effects table - Species heading information was added.
Section 11: Reproductive and/or Developmental Effects table - Test Result heading information was added.
Section 11: Reproductive and/or Developmental Effects text information was added.
Section 11: Carcinogenicity table - Name heading information was added.
Section 11: Carcinogenicity table - Route heading information was added.
Section 11: Carcinogenicity table - Species heading information was added.
Section 11: Carcinogenicity table - Value heading information was added.
Section 8: Eye/face protection text information was deleted.
Section 1: 1.2. Relevant identified uses of the substance or mixture and uses advised against heading information was deleted.
Section 1: 1.3. Details of the supplier of the substance or mixture heading information was deleted.
Section 5: 5.1. Extinguishing media heading information was deleted.
Section 5: 5.3. Advice for fire-fighters information was deleted.
Revision date text information was deleted.
Section 14: Main heading information was deleted.
Section 1: Product use information information was deleted.
Section 9: Boiling point information information was deleted.
Section 9: Explosive properties heading information was deleted.
Section 9: Oxidising properties heading information was deleted.
Section 9: Explosive properties information information was deleted.
Section 9: Oxidising properties information information was deleted.
Prints No Data if Component ecotoxicity information is not present information was deleted.
Prints No Data if Persistence and Degradability information is not present information was deleted.
Prints No Data if Bioaccumulative potential information is not present information was deleted.
Section 11: Aspiration Hazard Table information was deleted.
Section 11: Exposure Duration table heading information was deleted.
Section 11: Respiratory Sensitization Table information was deleted.
Section 11: Test Result table heading information was deleted.
Section 11: UN GHS Classification table heading information was deleted.
Section 11: Health Effects - Other information information was deleted.
Section 1: Identified uses header information was deleted.
Section 13: 13.1. Waste treatment method heading information was deleted.
Transportation information information was deleted.

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