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
3M™ TroubleShooter™ Baseboard Stripper

Product Identification Numbers
61-5000-6131-4

1.2. Recommended use and restrictions on use

Recommended use
Baseboard Stripper, Heavy duty aerosol cleaner removes soil, grease and finish buildup. Upside down spray feature for hard-to-reach places. Use on baseboards, floor edges, corners, stairways and ceramic tile. Contains no ozone depleting chemicals.

For Industrial or Professional use only

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

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
Aerosol: Category 3
Skin corrosion: Category 1B
Eye irritation: Category 2
Specific target organ toxicity – single exposure: Category 2
Specific target organ toxicity – single exposure: Category 3 narcotic effects

2.2. Label elements
SIGNAL WORD
Danger

Symbols:
Corrosion |Exclamation mark |Health Hazard |

Pictograms

HAZARD STATEMENTS:

H229	Pressurized container: may burst if heated.
H314a	Causes severe skin burns.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H371	May cause damage to organs: cardiovascular system.

PRECAUTIONARY STATEMENTS

Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251	Do not pierce or burn, even after use.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
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.
P337 + P313	IF eye irritation persists: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.

Storage

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C.

Disposal

P501	Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

2.3. Other hazards

May cause chemical gastrointestinal burns. This material has been tested for eye damage/irritation and the test results are reflected in the assigned classification. This material has been tested for skin corrosion/irritation and the test results are reflected in the assigned classification.

SECTION 3: Composition/information on ingredients

Ingredient	CAS Nbr	% by Weight
Water	7732-18-5	60 - 90
Butoxyethanol	111-76-2	10 - 15
Petroleum Gases, Liquified, Sweetened	68476-86-8	5 - 10
Xanthan Gum	11138-66-2	< 0.2
Fragrance	Trade Secret	< 0.5
C12-C15 Alcohols Ethoxylated	68131-39-5	< 1
2-aminoethanol	141-43-5	< 5
Magnesium Aluminum Silicate	12199-37-0	< 0.5

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation
Remove person to fresh air. 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. Remove contact lenses if easy to do. Continue rinsing. 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
The most important symptoms and effects based on the CLP classification include:

4.3. Indication of any immediate medical attention and special treatment required
Exposure may increase myocardial irritability. Do not administer sympathomimetic drugs unless absolutely necessary.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media
Use a fire fighting agent suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture
Closed containers exposed to heat from fire may build pressure and explode.

Hazardous Decomposition or By-Products

Substance	Condition
Carbon monoxide.	During combustion.
Carbon dioxide.	During combustion.

5.3. Special protective actions for fire-fighters
No special protective actions for fire-fighters are anticipated.

5.4. Hazchem code: 2YE

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. 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
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
If possible, seal leaking container. Place leaking containers in a well-ventilated area, preferably an operating exhaust hood, or if necessary outdoors on an impermeable surface until appropriate packaging for the leaking container or its contents is available. 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 closed container approved for transportation by appropriate authorities. Clean up residue with water. Seal the container. 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 pierce or burn, even after use. 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. Wash contaminated clothing before reuse. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.)

7.2. Conditions for safe storage including any incompatibilities
Store in a well-ventilated place. Keep container tightly closed. Protect from sunlight. Do not expose to temperatures exceeding 50C/122F. Store away from heat. Store away from acids. Store away from oxidising agents.

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
Butoxyethanol	111-76-2	ACGIH	TWA:20 ppm	A3: Confirmed animal

				carcinogen.
Butoxyethanol	111-76-2	New Zealand WES	TWA(8 hours):121 mg/m3(25 ppm)	Skin
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
ppm: parts per million
mg/m^3: 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:
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: Fluoroelastomer
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
Half facepiece or full facepiece supplied-air respirator.
Organic vapor respirators may have short service life.

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.
Specific Physical Form:	Aerosol
Colour	Off-White
Odour	Petroleum
Odour threshold	*No data available.*
pH	11 - 12.1
Melting point/Freezing point	*Not applicable.*
Boiling point/Initial boiling point/Boiling range	> 100 ºC
Flash point	No flash point
Evaporation rate	*No data available.*
Flammability (solid, gas)	Not applicable.
Flammable Limits(LEL)	*No data available.*
Flammable Limits(UEL)	*No data available.*
Vapour pressure	*No data available.*
Vapor Density and/or Relative Vapor Density	*No data available.*
Density	0.967 g/ml - 1.027 g/ml
Relative density	0.967 - 1.027 [*Ref Std:*WATER=1]
Water solubility	Complete
Solubility- non-water	*No data available.*
Partition coefficient: n-octanol/water	*No data available.*
Autoignition temperature	*No data available.*
Decomposition temperature	*No data available.*
Viscosity/Kinematic Viscosity	> 80 mPa-s
Volatile organic compounds (VOC)	15 - 20 % weight [*Test Method:*calculated per CARB title 2]
Percent volatile	60 - 90 % weight
VOC less H2O & exempt solvents	615 - 645 g/l [*Test Method:*calculated per CARB title 2]
Molecular weight	*No data available.*

SECTION 10: Stability and reactivity

10.1 Reactivity
This material may be reactive with certain agents under certain conditions - see the remaining headings in this section

10.2 Chemical stability
Stable.

10.3 Possibility of hazardous reactions
Hazardous polymerisation will not occur.

10.4 Conditions to avoid
Heat.
Sparks and/or flames.

10.5 Incompatible materials
Strong oxidising agents.
Strong acids.

10.6 Hazardous decomposition products

Substance	Condition
None known.	

Refer to Section 5.2 for hazardous decomposition products during combustion.

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. 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
Severe eye irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired 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:
Central nervous system (CNS) depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness. Single exposure, above recommended guidelines, may cause: Cardiac Sensitization: Signs/symptoms may include irregular heartbeat (arrhythmia), faintness, chest pain, and may be fatal.

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

Butoxyethanol	Dermal	Guinea pig	LD50 > 2,000 mg/kg
Butoxyethanol	Inhalation-Vapor (4 hours)	Guinea pig	LC50 > 2.6 mg/l
Butoxyethanol	Ingestion	Guinea pig	LD50 1,200 mg/kg
Petroleum Gases, Liquified, Sweetened	Inhalation-Gas (4 hours)	Rat	LC50 277,000 ppm
2-aminoethanol	Inhalation-Vapor	official classification	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
C12-C15 Alcohols Ethoxylated	Dermal	Rat	LD50 5,000 mg/kg
C12-C15 Alcohols Ethoxylated	Ingestion	Rat	LD50 1,200 mg/kg
Xanthan Gum	Dermal		LD50 estimated to be > 5,000 mg/kg
Xanthan Gum	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 5.25 mg/l
Xanthan Gum	Ingestion	Rat	LD50 > 45,000 mg/kg
Fragrance	Dermal	Rat	LD50 > 2,000 mg/kg
Fragrance	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 5.04 mg/l
Fragrance	Ingestion	Rat	LD50 > 2,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Overall product	In vitro data	Corrosive
Butoxyethanol	Rabbit	Irritant
Petroleum Gases, Liquified, Sweetened	Professional judgement	No significant irritation
2-aminoethanol	Rabbit	Corrosive
Fragrance	In vitro data	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
Overall product	Professional judgement	Severe irritant
Butoxyethanol	Rabbit	Severe irritant
Petroleum Gases, Liquified, Sweetened	Professional judgement	No significant irritation
2-aminoethanol	Rabbit	Corrosive
C12-C15 Alcohols Ethoxylated	Not available	Corrosive
Fragrance	In vitro data	No significant irritation

Sensitisation:

Skin Sensitisation

Name	Species	Value
Butoxyethanol	Guinea pig	Not classified
2-aminoethanol	Guinea pig	Not classified
Fragrance	Guinea pig	Not classified

Photosensitisation

Name	Species	Value
Fragrance	Guinea pig	Not sensitizing

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
Butoxyethanol	In Vitro	Some positive data exist, but the data are not sufficient for classification
Petroleum Gases, Liquified, Sweetened	In Vitro	Not mutagenic
2-aminoethanol	In Vitro	Not mutagenic
2-aminoethanol	In vivo	Not mutagenic
Fragrance	In Vitro	Not mutagenic
Fragrance	In vivo	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
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
Butoxyethanol	Dermal	Not classified for development	Rat	NOAEL 1,760 mg/kg/day	during gestation
Butoxyethanol	Ingestion	Not classified for development	Rat	NOAEL 100 mg/kg/day	during organogenesis
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
Fragrance	Ingestion	Not classified for female reproduction	Rat	NOAEL 92 mg/kg/day	2 generation
Fragrance	Ingestion	Not classified for male reproduction	Rat	NOAEL 94 mg/kg/day	2 generation
Fragrance	Ingestion	Not classified for development	Rat	NOAEL 150 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
Butoxyethanol	Dermal	endocrine system	Not classified	Rabbit	NOAEL 902 mg/kg	6 hours
Butoxyethanol	Dermal	liver	Not classified	Rabbit	LOAEL 72 mg/kg	not available
Butoxyethanol	Dermal	kidney and/or bladder	Not classified	Rabbit	LOAEL 451 mg/kg	6 hours
Butoxyethanol	Dermal	blood	Not classified	Multiple animal species	NOAEL Not available	
Butoxyethanol	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
Butoxyethanol	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	
Butoxyethanol	Inhalation	blood	Not classified	Multiple animal species	NOAEL Not available	
Butoxyethanol	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professional judgement	NOAEL Not available	
Butoxyethanol	Ingestion	blood	Not classified	Multiple animal species	NOAEL Not available	
Butoxyethanol	Ingestion	kidney and/or bladder	Not classified	Human	NOAEL Not available	poisoning and/or abuse
Petroleum Gases, Liquified, Sweetened	Inhalation	cardiac sensitization	Causes damage to organs	similar compounds	NOAEL Not available	
Petroleum Gases, Liquified, Sweetened	Inhalation	central nervous system depression	May cause drowsiness or dizziness		NOAEL Not available	
Petroleum Gases, Liquified, Sweetened	Inhalation	respiratory irritation	Not classified		NOAEL Not available	
2-aminoethanol	Inhalation	respiratory irritation	May cause respiratory irritation	Human and animal	NOAEL Not available	
Fragrance	Dermal	photoirritation	Not classified	Multiple animal species	NOAEL Not available.	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Butoxyethanol	Dermal	blood	Not classified	Multiple animal species	NOAEL Not available	not available
Butoxyethanol	Dermal	endocrine system	Not classified	Rabbit	NOAEL 150 mg/kg/day	90 days
Butoxyethanol	Inhalation	liver	Not classified	Rat	NOAEL 2.4 mg/l	14 weeks
Butoxyethanol	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 0.15 mg/l	14 weeks
Butoxyethanol	Inhalation	blood	Not classified	Rat	LOAEL 0.15 mg/l	6 months
Butoxyethanol	Inhalation	endocrine system	Not classified	Dog	LOAEL 1.9 mg/l	8 days
Butoxyethanol	Ingestion	blood	Not classified	Rat	LOAEL 69 mg/kg/day	13 weeks
Butoxyethanol	Ingestion	kidney and/or bladder	Not classified	Multiple animal species	NOAEL Not available	not available
Petroleum Gases, Liquified, Sweetened	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL Not available	
2-aminoethanol	Inhalation	liver | kidney and/or bladder | respiratory	Not classified	Multiple animal	NOAEL 0.656 mg/l	5 weeks

		system		species		
2-aminoethanol	Ingestion	hematopoietic system | liver | kidney and/or bladder | respiratory system	Not classified	Rat	NOAEL Not available	
Fragrance	Ingestion	heart | skin | endocrine system | gastrointestinal tract | bone, teeth, nails, and/or hair | hematopoietic system | liver | immune system | muscles | nervous system | eyes | kidney and/or bladder | respiratory system | vascular system	Not classified	Rat	NOAEL 150 mg/kg/day	90 days

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.
Acute Aquatic Toxicity: Category 3

No product test data available.

Material	CAS Number	Organism	Type	Exposure	Test endpoint	Test result
Butoxyethanol	111-76-2	Activated sludge	Experimental	16 hours	IC50	>1,000 mg/l
Butoxyethanol	111-76-2	Eastern oyster	Experimental	96 hours	LC50	89.4 mg/l
Butoxyethanol	111-76-2	Green algae	Experimental	72 hours	ErC50	1,840 mg/l
Butoxyethanol	111-76-2	Rainbow trout	Experimental	96 hours	LC50	1,474 mg/l
Butoxyethanol	111-76-2	Water flea	Experimental	48 hours	EC50	1,550 mg/l
Butoxyethanol	111-76-2	Green algae	Experimental	72 hours	ErC10	679 mg/l
Butoxyethanol	111-76-2	Water flea	Experimental	21 days	NOEC	100 mg/l
Petroleum Gases, Liquified, Sweetened	68476-86-8	N/A	Data not available or insufficient for classification	N/A	N/A	n/a
C12-C15 Alcohols Ethoxylated	68131-39-5	Bacteria	Estimated	16.9 hours	EC10	>10,000 mg/l
C12-C15	68131-39-5	Diatom	Experimental	72 hours	EC50	1 mg/l

Alcohols Ethoxylated						
C12-C15 Alcohols Ethoxylated	68131-39-5	Fathead minnow	Experimental	96 hours	LC50	0.48 mg/l
C12-C15 Alcohols Ethoxylated	68131-39-5	Green algae	Experimental	72 hours	ErC50	0.85 mg/l
C12-C15 Alcohols Ethoxylated	68131-39-5	Water flea	Experimental	48 hours	EC50	0.14 mg/l
C12-C15 Alcohols Ethoxylated	68131-39-5	Diatom	Experimental	72 hours	NOEC	0.32 mg/l
C12-C15 Alcohols Ethoxylated	68131-39-5	Green algae	Experimental	72 hours	NOEC	0.5 mg/l
C12-C15 Alcohols Ethoxylated	68131-39-5	Water flea	Experimental	21 days	NOEC	0.083 mg/l
2-aminoethanol	141-43-5	Diatom	Experimental	72 hours	ErC50	198 mg/l
2-aminoethanol	141-43-5	Green algae	Experimental	72 hours	ErC50	2.5 mg/l
2-aminoethanol	141-43-5	Rainbow trout	Experimental	96 hours	LC50	105 mg/l
2-aminoethanol	141-43-5	Water flea	Experimental	48 hours	EC50	27.04 mg/l
2-aminoethanol	141-43-5	Green algae	Experimental	72 hours	NOEC	1 mg/l
2-aminoethanol	141-43-5	Medaka	Experimental	41 days	NOEC	1.24 mg/l
2-aminoethanol	141-43-5	Water flea	Experimental	21 days	NOEC	0.85 mg/l
2-aminoethanol	141-43-5	Activated sludge	Experimental	30 minutes	IC50	>1,000 mg/l
2-aminoethanol	141-43-5	Plant	Experimental	21 days	EC50	1,290 mg/kg (Dry Weight)
2-aminoethanol	141-43-5	Redworm	Experimental	35 days	LC50	3,715 mg/kg (Dry Weight)
2-aminoethanol	141-43-5	Springtail	Experimental	28 days	LC50	1,893 mg/kg (Dry Weight)
Fragrance	Trade Secret	Green algae	Experimental	72 hours	ErC50	>0.854 mg/l
Fragrance	Trade Secret	Medaka	Experimental	96 hours	LC50	0.95 mg/l
Fragrance	Trade Secret	Water flea	Experimental	48 hours	EC50	0.3 mg/l
Fragrance	Trade Secret	Fathead minnow	Experimental	36 days	NOEC	0.068 mg/l
Fragrance	Trade Secret	Green algae	Experimental	72 hours	NOEC	0.201 mg/l
Fragrance	Trade Secret	Water flea	Experimental	21 days	NOEC	0.111 mg/l
Magnesium Aluminum Silicate	12199-37-0	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Xanthan Gum	11138-66-2	Rainbow trout	Experimental	96 hours	LC50	420 mg/l

12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Butoxyethanol	111-76-2	Experimental Biodegradation	28 days	CO2 evolution	90.4 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2

Butoxyethanol	111-76-2	Experimental Biodegradation	28 days	Dissolv. Organic Carbon Deplet	100 % removal of DOC	OECD 302B Zahn-Wellens/EVPA
Petroleum Gases, Liquified, Sweetened	68476-86-8	Data not availbl-insufficient	N/A	N/A	N/A	N/A
C12-C15 Alcohols Ethoxylated	68131-39-5	Experimental Biodegradation	28 days	CO2 evolution	64-79 %CO2 evolution/THCO2 evolution	
2-aminoethanol	141-43-5	Experimental Biodegradation	28 days	CO2 evolution	80 %CO2 evolution/THCO2 evolution	
2-aminoethanol	141-43-5	Experimental Biodegradation	21 days	Dissolv. Organic Carbon Deplet	>90 % removal of DOC	OECD 301A - DOC Die Away Test
2-aminoethanol	141-43-5	Experimental Photolysis		Photolytic half-life (in air)	5.5 hours (t 1/2)	
Fragrance	Trade Secret	Experimental Biodegradation	28 days	CO2 evolution	0 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2
Fragrance	Trade Secret	Experimental Photolysis		Photolytic half-life (in air)	1.12 days (t 1/2)	
Magnesium Aluminum Silicate	12199-37-0	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Xanthan Gum	11138-66-2	Data not availbl-insufficient	N/A	N/A	N/A	N/A

12.3 : Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Butoxyethanol	111-76-2	Experimental Bioconcentration		Log Kow	0.81	
Petroleum Gases, Liquified, Sweetened	68476-86-8	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Petroleum Gases, Liquified, Sweetened	68476-86-8	Estimated Bioconcentration		Log Kow	2.8	
C12-C15 Alcohols Ethoxylated	68131-39-5	Experimental BCF - Fish	72 hours	Bioaccumulation factor	310	
2-aminoethanol	141-43-5	Experimental Bioconcentration		Log Kow	-2.3	OECD 107 log Kow shke flsk mtd
Fragrance	Trade Secret	Experimental BCF - Fish	28 days	Bioaccumulation factor	1584	OECD305-Bioconcentration
Magnesium Aluminum Silicate	12199-37-0	Data not available or insufficient for	N/A	N/A	N/A	N/A

		classification				
Xanthan Gum	11138-66-2	Data not available or insufficient for classification	N/A	N/A	N/A	N/A

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. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Facility must be capable of handling aerosol cans. 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.

Disposal of the aerosol dispenser (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.: UN1950
Proper Shipping Name: AEROSOLS
Class/Division: 2.2
Sub Risk: 8
Packing Group: Not applicable.
Special Instructions: Limited quantity may apply
Hazchem Code: 2YE
IERG: 49

International Air Transport Association (IATA) - Air Transport
UN No.: UN1950
Proper Shipping Name: AEROSOLS, NON-FLAMMABLE, CONTAINING SUBSTANCES IN CLASS 8, PACKING GROUP III
Class/Division: 2.2
Sub Risk: 8
Packing Group: III

International Maritime Dangerous Goods Code (IMDG) - Marine Transport
UN No.: UN1950
Proper Shipping Name: AEROSOLS
Class/Division: 2.2
Sub Risk: 8
Packing Group: Not applicable.
Marine Pollutant: Not applicable.
Special Instructions: Limited quantity may apply

SECTION 15: Regulatory information

HSNO Approval number	HSR002514
Group standard name	Aerosols (Non flammable, Corrosive) Group Standard 2020
HSNO Hazard classification	Refer 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

Certified handler	Not required
Location Compliance Certificate	Not required
Hazardous atmosphere zone	Not required
Fire extinguishers	Not required
Emergency response plan	3,000 L (aggregate water capacity)
Secondary containment	Not required
Tracking	Not required
Warning signage	3,000 L (aggregate water capacity)

SECTION 16: Other information

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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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