

**CYCLONE MULTI SURFACE CLEANER**

Revision: 2024-07-31

Version: 01.1

**SECTION 1: Identification of the substance/mixture and supplier****1.1 Product identifier****Product name:** CYCLONE MULTI SURFACE CLEANER**1.2 Recommended use and restrictions on use****Identified uses:**

Hard surface cleaner

**Restrictions of use:**

Uses other than those identified are not recommended

**1.3 Details of the supplier**

DIVERSEY NEW ZEALAND LTD.

24 Bancroft Crescent, Glendene, Auckland, 0602, New Zealand

Telephone: 0800 803 615 (toll free)

Website: [www.diversey.com](http://www.diversey.com)**1.4 Emergency telephone number**

Seek medical advice (show the label or safety data sheet where possible)

Call 0800 243 622 (24 hrs)

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture**

Aerosols, Category 1

Skin irritation, Category 3

Acute aquatic toxicity, Category 3

**2.2 Label elements****Signal word:** Danger**Hazard statements:**

H222 - Extremely flammable aerosol.

H229 - Pressurised container: May burst if heated.

H316 - Causes mild skin irritation.

H402 - Harmful to aquatic life.

**Prevention statement(s):**

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 - Do not spray on an open flame or other ignition source.

P251 - Do not pierce or burn, even after use.

**Storage statement(s):**

P410 + P403 - Protect from sunlight. Store in a well-ventilated place.

P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

**Disposal statement(s):**

P501 - Dispose of unused content as chemical waste.

**2.3 Other hazards**

No other hazards known.

**SECTION 3: Composition/information on ingredients**

### 3.1 Substances / Mixtures

Ingredient(s)	CAS#	EC number	Weight percent
butane	106-97-8	203-448-7	3-10
2-butoxyethanol	111-76-2	203-905-0	1-3
tetrapotassium pyrophosphate	7320-34-5	230-785-7	1-3
propane	74-98-6	200-827-9	1-3
disodium metasilicate	6834-92-0	229-912-9	0.1-1
ammonia	1336-21-6	215-647-6	0.01-0.1
ethanol	64-17-5	200-578-6	0.01-0.1

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

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

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

<b>Inhalation:</b>	Get medical attention or advice if you feel unwell.
<b>Skin contact:</b>	Wash skin with plenty of lukewarm, gently flowing water. If skin irritation occurs: Get medical advice or attention.
<b>Eye contact:</b>	Rinse cautiously with water for several minutes. If irritation occurs and persists, get medical attention.
<b>Ingestion:</b>	Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Get medical attention or advice if you feel unwell.
<b>Self-protection of first aider:</b>	Consider personal protective equipment as indicated in subsection 8.2.

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

<b>Inhalation:</b>	No known effects or symptoms in normal use.
<b>Skin contact:</b>	Direct contact can damage skin by freezing.
<b>Eye contact:</b>	Direct contact can damage the eye by freezing.
<b>Ingestion:</b>	No known effects or symptoms in normal use.

### 4.3 Indication of any immediate medical attention and special treatment needed

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

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

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

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

### 5.2 Special hazards arising from the substance or mixture

Cool endangered packaging with water spray jet.

### 5.3 Advice for firefighters

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

### 5.4 Hazchem code

*None allocated*

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

No special measures required.

### 6.2 Environmental precautions

No special environmental precautions required.

### 6.3 Methods and material for containment and cleaning up

Absorb liquid components with liquid-binding material.

### 6.4 Reference to other sections

For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

**Measures to prevent fire and explosions:**

Keep away from heat. BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50° C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects.

**Measures required to protect the environment:**

For environmental exposure controls see subsection 8.2.

**Advices on general occupational hygiene:**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Handle and open container with care. Wash hands before breaks and at the end of workday. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Use personal protective equipment as required. Use only with adequate ventilation. See chapter 8.2, Exposure controls / Personal protection.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in accordance with local and national regulations. Store in a well-ventilated place. Keep away from heat and direct sunlight. For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

**7.3 Specific end use(s)**

No specific advice for end use available.

## SECTION 8: Exposure controls/personal protection

**8.1 Control parameters****Workplace exposure limits**

Air limit values, if available:

Ingredient(s)	Long term value(s)	Short term value(s)	Ceiling value(s)
butane	800 ppm 1900 mg/m <sup>3</sup> 1000 ppm 1640 mg/m <sup>3</sup>	1250 ppm 2050 mg/m <sup>3</sup>	
2-butoxyethanol	25 ppm 121 mg/m <sup>3</sup>		
propane	1000 ppm 1640 mg/m <sup>3</sup>	1250 ppm 2050 mg/m <sup>3</sup>	

Biological limit values, if available:

**8.2 Exposure controls**

*The following information applies for the uses indicated in subsection 1.2 of the Safety Data Sheet.*

*If available, please refer to the product information sheet for application and handling instructions.*

*Normal use conditions are assumed for this section.*

Recommended safety measures for handling the undiluted product:

**Appropriate engineering controls:** Use only in well ventilated areas. Ensure that foam equipment does not generate respirable particles.

**Appropriate organisational controls:** Avoid direct contact and/or splashes where possible. Train personnel.

**Personal protective equipment**

**Eye / face protection:** No special requirements under normal use conditions.

**Hand protection:** No special requirements under normal use conditions.

**Body protection:** No special requirements under normal use conditions.

**Respiratory protection:** Respiratory protection is not normally required. However, inhalation of vapour, spray, gas or aerosols should be avoided.

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

## SECTION 9: Physical and chemical properties

**9.1 Information on basic physical and chemical properties**

	Method / remark
<b>Physical state:</b> Aerosol	
<b>Colour:</b> Clear , Colourless	
<b>Odour:</b> Slightly perfumed	
<b>Odour threshold:</b> Not applicable	
<b>pH:</b> ~ 12.4 (neat)	ISO 4316
<b>Melting point/freezing point (°C):</b> Not determined	Not relevant to classification of this product
<b>Initial boiling point and boiling range (°C):</b> Not determined	Not applicable as product is an aerosol

**Flammability (liquid):** Not flammable.  
**Flash point (°C):** Not applicable as product is an aerosol  
**Sustained combustion:** Not applicable.  
 (UN Manual of Tests and Criteria, section 32, L.2)

**Evaporation rate:** Not determined  
**Flammability (solid, gas):** Not applicable to liquids  
**Lower and upper explosion limit/flammability limit (%):** Not determined  
**Vapour pressure:** Not determined  
**Relative density:** ≈ 1.02 (20 °C)  
**Relative vapour density:** Not determined.  
**Particle characteristics:** No data available.  
**Solubility in / Miscibility with water:** Fully miscible  
**Partition coefficient: n-octanol/water** No information available.

Not relevant to classification of this product  
 OECD 109 (EU A.3)  
 Not relevant to classification of this product  
 Not applicable to liquids.

Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3

**Autoignition temperature:** Not determined  
**Decomposition temperature:** Not applicable.  
**Kinematic viscosity:** Not determined  
**Explosive properties:** Not explosive. Vapours may form explosive mixtures with air.  
**Oxidising properties:** Not oxidising.

## 9.2 Other information

**Surface tension (N/m):** Not determined  
**Corrosion to metals:** Not corrosive

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

### 10.2 Chemical stability

Stable under normal storage and use conditions.

### 10.3 Possibility of hazardous reactions

No hazardous reactions known under normal storage and use conditions.

### 10.4 Conditions to avoid

None known under normal storage and use conditions.

### 10.5 Incompatible materials

None known under normal use conditions.

### 10.6 Hazardous decomposition products

None known under normal storage and use conditions.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Mixture data: .

#### Relevant calculated ATE(s):

ATE - Oral (mg/kg): >2000  
 ATE - Dermal (mg/kg): >2000  
 ATE - Inhalatory, vapours (mg/l): >20

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

#### Acute toxicity

Acute oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
butane		No data available			
2-butoxyethanol	LD <sub>50</sub>	1746	Rat	ATE - Acute Toxicity Estimate	

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tetrapotassium pyrophosphate	LD <sub>50</sub>	> 2000	Rat	Method not given	
propane		No data available			
disodium metasilicate	LD <sub>50</sub>	770 - 820	Mouse	Method not given	ECHA Dossier 2020
n-alkyl dimethyl benzyl ammonium chloride	LD <sub>50</sub>	304.5	Rat		

## Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
butane		No data available			
2-butoxyethanol	LD <sub>50</sub>	6411		Method not given	
tetrapotassium pyrophosphate	LD <sub>50</sub>	> 2000	Rabbit	Method not given	
propane		No data available			
disodium metasilicate	LD <sub>50</sub>	> 5000	Rat Guinea pig	Method not given	
n-alkyl dimethyl benzyl ammonium chloride	LD <sub>50</sub>	3412	Rabbit	Method not given	

## Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
butane		No data available			
2-butoxyethanol	LC <sub>50</sub>	> 2 (mist) No mortality observed	Rat	Method not given	4
tetrapotassium pyrophosphate	LC <sub>50</sub>	> 1.1	Rat	Method not given	4
propane		No data available			
disodium metasilicate	LC <sub>50</sub>	> 2.06	Rat	Method not given	
n-alkyl dimethyl benzyl ammonium chloride		No data available			

## Irritation and corrosivity

## Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
butane	No data available			
2-butoxyethanol	Irritant	Rabbit	OECD 404 (EU B.4)	24; 48; 72 hour(s)
tetrapotassium pyrophosphate	Not irritant		Method not given	
propane	No data available			
disodium metasilicate	Corrosive		Method not given	
n-alkyl dimethyl benzyl ammonium chloride	Corrosive	Rabbit	Method not given	

## Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
butane	No data available			
2-butoxyethanol	Irritant	Rabbit	OECD 405 (EU B.5)	24; 48; 72 hour(s)
tetrapotassium pyrophosphate	Irritant		Method not given	
propane	No data available			
disodium metasilicate	Corrosive		Method not given	
n-alkyl dimethyl benzyl ammonium chloride	Severe damage		Method not given	

## Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
butane	No data available			
2-butoxyethanol	No data available			
tetrapotassium pyrophosphate	No data available			
propane	No data available			
disodium metasilicate	Irritating to respiratory tract		Method not given	
n-alkyl dimethyl benzyl ammonium chloride	No data available			

## Sensitisation

## Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
butane	No data available			

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2-butoxyethanol	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	
tetrapotassium pyrophosphate	Not sensitising		Method not given	
propane	No data available			
disodium metasilicate	Not sensitising	Mouse	OECD 429 (EU B.42)	
n-alkyl dimethyl benzyl ammonium chloride	Not sensitising	Guinea pig	OECD 406 (EU B.6) / Buehler test	

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
butane	No data available			
2-butoxyethanol	No data available			
tetrapotassium pyrophosphate	No data available			
propane	No data available			
disodium metasilicate	No data available			
n-alkyl dimethyl benzyl ammonium chloride	No data available			

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

Mutagenicity

Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
butane	No data available		No data available	
2-butoxyethanol	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13) OECD 476 (Chinese Hamster Ovary)	No evidence for mutagenicity, negative test results	OECD 474 (EU B.12)
tetrapotassium pyrophosphate	No data available		No data available	
propane	No data available		No data available	
disodium metasilicate	No data available		No data available	
n-alkyl dimethyl benzyl ammonium chloride	No evidence of genotoxicity, negative test results	OECD 471 (EU B.12/13) OECD 476 OECD 473	No evidence of genotoxicity, negative test results	OECD 474 (EU B.12)

Carcinogenicity

Ingredient(s)	Effect
butane	No data available
2-butoxyethanol	No evidence for carcinogenicity, negative test results
tetrapotassium pyrophosphate	No data available
propane	No data available
disodium metasilicate	No data available
n-alkyl dimethyl benzyl ammonium chloride	No data available

Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
butane			No data available				
2-butoxyethanol			No data available				
tetrapotassium pyrophosphate			No data available				
propane			No data available				
disodium metasilicate			No data available				
n-alkyl dimethyl benzyl ammonium chloride			No data available				

**Repeated dose toxicity**

Sub-acute or sub-chronic oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
butane		No data available				
2-butoxyethanol		No data available				
tetrapotassium pyrophosphate	NOAEL	No data available	Rat	OECD 408 (EU B.26)	90 days	
propane		No data available				
disodium metasilicate	NOAEL	> 227 - 237	Rat	Method not given		

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n-alkyl dimethyl benzyl ammonium chloride		No data available				
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Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
butane		No data available				
2-butoxyethanol		No data available				
tetrapotassium pyrophosphate		No data available				
propane		No data available				
disodium metasilicate		No data available				
n-alkyl dimethyl benzyl ammonium chloride		No data available				

Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
butane		No data available				
2-butoxyethanol		No data available				
tetrapotassium pyrophosphate		No data available				
propane		No data available				
disodium metasilicate		No data available				
n-alkyl dimethyl benzyl ammonium chloride		No data available				

Chronic toxicity

Ingredient(s)	Exposure route	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time	Specific effects and organs affected	Remark
butane			No data available					
2-butoxyethanol			No data available					
tetrapotassium pyrophosphate			No data available					
propane			No data available					
disodium metasilicate			No data available					
n-alkyl dimethyl benzyl ammonium chloride			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
butane	No data available
2-butoxyethanol	No data available
tetrapotassium pyrophosphate	No data available
propane	No data available
disodium metasilicate	Respiratory tract
n-alkyl dimethyl benzyl ammonium chloride	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
butane	No data available
2-butoxyethanol	No data available
tetrapotassium pyrophosphate	No data available
propane	No data available
disodium metasilicate	Not applicable
n-alkyl dimethyl benzyl ammonium chloride	No data available

**Aspiration hazard**

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

**Potential adverse health effects and symptoms**

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

## SECTION 12: Ecological information

### 12.1 Toxicity

No data is available on the mixture .

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

#### Aquatic short-term toxicity

Aquatic short-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
butane		No data available			
2-butoxyethanol	LC <sub>50</sub>	> 100	<i>Oncorhynchus mykiss</i>	OECD 203, static	96
tetrapotassium pyrophosphate	LC <sub>50</sub>	> 100	<i>Oncorhynchus mykiss</i>	OECD 203 (EU C.1)	96
propane		No data available			
disodium metasilicate	LC <sub>50</sub>	210	<i>Brachydanio rerio</i>	Method not given	96
n-alkyl dimethyl benzyl ammonium chloride	LC <sub>50</sub>	0.515	<i>Fish</i>	Method not given	96

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
butane		No data available			
2-butoxyethanol	EC <sub>50</sub>	> 100	<i>Daphnia magna Straus</i>	OECD 202, static	48
tetrapotassium pyrophosphate	EC <sub>50</sub>	> 100	<i>Daphnia magna Straus</i>	OECD 202 (EU C.2)	48
propane		No data available			
disodium metasilicate	EC <sub>50</sub>	1700	<i>Daphnia</i>	Method not given	48
n-alkyl dimethyl benzyl ammonium chloride	EC <sub>50</sub>	0.016	<i>Daphnia</i>	Method not given	48

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
butane		No data available			
2-butoxyethanol	EC <sub>50</sub>	> 100	<i>Pseudokirchneriella subcapitata</i>	OECD 201, static	72
tetrapotassium pyrophosphate		No data available			
propane		No data available			
disodium metasilicate	EC <sub>50</sub>	207	<i>Chlorella pyrenoidosa</i>	Method not given	72
n-alkyl dimethyl benzyl ammonium chloride	EC <sub>50</sub>	0.02	<i>Selenastrum capricornutum</i>	OECD 201 (EU C.3)	72

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
butane		No data available			
2-butoxyethanol		No data available			
tetrapotassium pyrophosphate		No data available			
propane		No data available			
disodium metasilicate		No data available			
n-alkyl dimethyl benzyl ammonium chloride		No data available			

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time

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butane		No data available			
2-butoxyethanol	EC <sub>0</sub>	700	<i>Pseudomonas putida</i>	Method not given	16 hour(s)
tetrapotassium pyrophosphate		No data available			
propane		No data available			
disodium metasilicate	EC <sub>50</sub>	> 100	<i>Activated sludge</i>	Method not given	3 hour(s)
n-alkyl dimethyl benzyl ammonium chloride	EC <sub>20</sub>	5	<i>Activated sludge</i>	OECD 209	0.5 hour(s)

**Aquatic long-term toxicity**

Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
butane		No data available				
2-butoxyethanol	NOEC	> 100	<i>Danio rerio</i>	OECD 204	21 day(s)	
tetrapotassium pyrophosphate		No data available				
propane		No data available				
disodium metasilicate		No data available				
n-alkyl dimethyl benzyl ammonium chloride		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
butane		No data available				
2-butoxyethanol	NOEC	100	<i>Daphnia magna</i>	OECD 211	21 day(s)	
tetrapotassium pyrophosphate		No data available				
propane		No data available				
disodium metasilicate		No data available				
n-alkyl dimethyl benzyl ammonium chloride	NOEC	0.025	<i>Daphnia magna</i>	OECD 211	21 day(s)	

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

Ingredient(s)	Endpoint	Value (mg/kg dw sediment)	Species	Method	Exposure time (days)	Effects observed
tetrapotassium pyrophosphate		No data available				
n-alkyl dimethyl benzyl ammonium chloride		No data available				

**Terrestrial toxicity**

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

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
tetrapotassium pyrophosphate		No data available				
n-alkyl dimethyl benzyl ammonium chloride		No data available				

Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
tetrapotassium pyrophosphate		No data available				
n-alkyl dimethyl benzyl ammonium chloride		No data available				

Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
tetrapotassium pyrophosphate		No data				

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n-alkyl dimethyl benzyl ammonium chloride		available				
		No data available				

Terrestrial toxicity - beneficial insects, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
tetrapotassium pyrophosphate		No data available				
n-alkyl dimethyl benzyl ammonium chloride		No data available				

Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
tetrapotassium pyrophosphate		No data available				
n-alkyl dimethyl benzyl ammonium chloride		No data available				

## 12.2 Persistence and degradability

### Abiotic degradation

Abiotic degradation - photodegradation in air, if available:

Ingredient(s)	Half-life time	Method	Evaluation	Remark
tetrapotassium pyrophosphate	No data available			
n-alkyl dimethyl benzyl ammonium chloride	No data available			

Abiotic degradation - hydrolysis, if available:

Ingredient(s)	Half-life time in fresh water	Method	Evaluation	Remark
tetrapotassium pyrophosphate	No data available			
n-alkyl dimethyl benzyl ammonium chloride	No data available			

Abiotic degradation - other processes, if available:

Ingredient(s)	Type	Half-life time	Method	Evaluation	Remark
tetrapotassium pyrophosphate		No data available			
n-alkyl dimethyl benzyl ammonium chloride		No data available			

### Biodegradation

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT <sub>50</sub>	Method	Evaluation
butane					Readily biodegradable
2-butoxyethanol		CO <sub>2</sub> production	90.4 % in 28 day(s)	OECD 301B	Readily biodegradable
tetrapotassium pyrophosphate					Not applicable (inorganic substance)
propane					Readily biodegradable
disodium metasilicate					Not applicable (inorganic substance)
n-alkyl dimethyl benzyl ammonium chloride		Oxygen depletion	> 60%	Read across	Readily biodegradable

Ready biodegradability - anaerobic and marine conditions, if available:

Ingredient(s)	Medium & Type	Analytical method	DT <sub>50</sub>	Method	Evaluation
tetrapotassium pyrophosphate					No data available
n-alkyl dimethyl benzyl ammonium chloride					No data available

Degradation in relevant environmental compartments, if available:

Ingredient(s)	Medium & Type	Analytical method	DT <sub>50</sub>	Method	Evaluation
tetrapotassium pyrophosphate					No data available
n-alkyl dimethyl benzyl ammonium chloride					No data available

## 12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log K<sub>ow</sub>)

Ingredient(s)	Value	Method	Evaluation	Remark
butane	No data available			

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2-butoxyethanol	0.81	OECD 107	Low potential for bioaccumulation	
tetrapotassium pyrophosphate	-2	Method not given	No bioaccumulation expected	
propane	No data available			
disodium metasilicate	No data available			
n-alkyl dimethyl benzyl ammonium chloride	0.004	Method not given	No bioaccumulation expected	at 20 °C

## Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
butane	No data available				
2-butoxyethanol	No data available				
tetrapotassium pyrophosphate	No data available				
propane	No data available				
disodium metasilicate	No data available				
n-alkyl dimethyl benzyl ammonium chloride	79	<i>Lepomis macrochirus</i>		Low potential for bioaccumulation	

## 12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log Koc	Desorption coefficient Log Koc(des)	Method	Soil/sediment type	Evaluation
butane	No data available				
2-butoxyethanol	No data available				Potential for mobility in soil, soluble in water
tetrapotassium pyrophosphate	No data available				
propane	No data available				
disodium metasilicate	No data available				
n-alkyl dimethyl benzyl ammonium chloride	No data available				

## 12.5 Other adverse effects

No other adverse effects known.

## SECTION 13: Disposal considerations

## 13.1 Waste treatment methods

Waste from residues / unused products:

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

## Empty packaging

Recommendation:

Dispose of observing national or local regulations.

## SECTION 14: Transport information



## ADG, IMO/IMDG, ICAO/IATA

14.1 UN number or ID number: 1950

14.2 UN proper shipping name:

Aerosols

14.3 Transport hazard class(es):

Transport hazard class (and subsidiary risks): 2.1

14.4 Packing group: -

14.5 Environmental hazards:

Environmentally hazardous: No

Marine pollutant: No

14.6 Special precautions for user: None known.

14.7 Maritime transport in bulk according to IMO instruments: The product is not transported in bulk tankers.

Other relevant information:

**Hazchem code:** None allocated

**Classification code:** 5F

**Tunnel restriction code:** (D)

**EmS:** F-D, S-U

This product has been classified, labelled and package in accordance with the requirements of the NZ Land Transport Rule: Dangerous Goods, ADG, and the provisions of the IMDG Code.

Transport regulations include special provisions for certain classes of dangerous goods packed in limited quantities.

## SECTION 15: Regulatory information

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

**HSNO Approval Number**

HSR002515.

**Group standard**

Aerosols Flammable Group Standard 2020

**Inventory Listing(s)**

New Zealand: NZIoC (New Zealand Inventory of Chemicals)

All components are listed on the NZIoC inventory, or are exempt

**HSNO Classification**

2.1.2A - Flammable aerosols

6.3B - Mildly irritating to the skin

9.1D - Slightly harmful to the aquatic environment or are otherwise designed for biocidal action

## SECTION 16: Other information

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

**SDS code:** MS3200090

**Version:** 01.1

**Revision:** 2024-07-31

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

### Abbreviations and acronyms:

- DNEL - Derived No Effect Limit
- AUH - Non GHS hazard statement
- PNEC - Predicted No Effect Concentration
- ATE - Acute Toxicity Estimate
- LD50 - Lethal Dose, 50% / Median Lethal dose
- LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- EC50 - effective concentration, 50%
- NOEL - No observed effect level
- NOAEL - No observed adverse effect level
- STOT-RE - Specific target organ toxicity (repeated exposure)
- STOT-SE - Specific target organ toxicity (single exposure)
- EC No. - European Community Number
- OECD - Organisation for Economic Cooperation and Development

End of Safety Data Sheet