

# Safety Data Sheet

# SHIELD PINE

Revision: 2018-09-03

Version: 01.0

# SECTION 1: Identification of the substance/mixture and supplier

1.1 Product identifier Product name: SHIELD PINE

1.2 Recommended use and restrictions on use Identified uses: Commercial grade disinfectant Restrictions of use: Uses other than those identified are not recommended

# 1.3 Details of the supplier

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

**1.4 Emergency telephone number** 

Call 0800 243 622 (24 hrs)

# **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

### **HSNO Classification**

6.3B - Mildly irritating to the skin 9.1D - Slightly harmful to the aquatic environment or are otherwise designed for biocidal action

### **GHS Equivalent Classification**

Skin irritation, Category 3 Acute aquatic toxicity, Category 2

### 2.2 Label elements

Hazard statements: H316 - Causes mild skin irritation. H401 - Toxic to aquatic life.

**2.3 Other hazards** No other hazards known.

## 2.4 Classification diluted product:

Recommended maximum concentration (%): 4.8

# HSNO Classification

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

GHS Equivalent Classification Acute aquatic toxicity, Category 3

### 2.5 Label elements diluted product

H402 - Harmful to aquatic life.

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

### 3.1 Substances / Mixtures

Ingredient(s)	CAS number	EC number	Weight percent
alkyldimethylbenzylammoniumchloride	68424-85-1	270-325-2	1-3
pine, ext.	94266-48-5	304-455-9	1-3

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 measure	\$
Inhalation:	Get medical attention or advice if you feel unwell.
Skin contact:	Wash skin with plenty of lukewarm, gently flowing water. If skin irritation occurs: Get medical advice or attention.
Eye contact:	Rinse cautiously with water for several minutes. If irritation occurs and persists, get medical attention.
Ingestion:	Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Get medical attention or advice if you feel unwell.
Self-protection of first aider:	Consider personal protective equipment as indicated in subsection 8.2.
4.2 Most important symptoms and e	
Inhalation:	No known effects or symptoms in normal use.

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

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

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

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

# SECTION 5: Firefighting measures

### 5.1 Extinguishing media

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

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

### No special hazards known.

#### 5.3 Advice for firefighters

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

### 5.4 Hazchem code

None allocated

# SECTION 6: Accidental release measures

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

No special measures required.

### 6.2 Environmental precautions

Do not allow to enter drainage system, surface or ground water. Do not allow to enter the ground/soil. Inform responsible authorities in case undiluted product reaches drainage system, surface or ground water or the ground/soil.

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

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

### 6.4 Reference to other sections

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

### SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

**Measures to prevent fire and explosions:** No special precautions required.

# Measures required to protect the environment:

For environmental exposure controls see subsection 8.2.

### Advices on general occupational hygiene:

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

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

Store in accordance with local and national regulations. Store in a closed container. Keep only in original packaging. Keep from freezing. 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:

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 <u>undiluted</u> product: Covering activities such as filling and transfer of product to application equipment, flasks or buckets

Appropriate engineering controls: Appropriate organisational controls:	No special requirements under normal use conditions. Avoid direct contact and/or splashes where possible. Train personnel.
Personal protective equipment	
Eye / face protection:	Safety glasses are not normally required. However, their use is recommended in those cases where splashes may occur when handling the product (EN 166).
Hand protection:	No special requirements under normal use conditions.
Body protection:	No special requirements under normal use conditions.
Respiratory protection:	No special requirements under normal use conditions.
Environmental exposure controls:	No special requirements under normal use conditions.
Recommended safety measures for hand	ling the <u>diluted</u> product:
Recommended maximum concentration	n (%): 4.8
Appropriate engineering controls:	Use only in well ventilated areas.
Appropriate organisational controls:	No special requirements under normal use conditions.
Personal protective equipment	
Eye / face protection:	No special requirements under normal use conditions. Covered by respiratory protection.
Hand protection:	No special requirements under normal use conditions.
Body protection:	No special requirements under normal use conditions.
Respiratory protection:	No special requirements under normal use conditions.

Environmental exposure controls:

Physical State: Liquid Colour: Clear, Green

No special requirements under normal use conditions.

# SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Method / remark

Odour: Slightly perfumed Odour threshold: Not applicable pH: ≈ 7 Dilution pH: ≈ 7 (5%) Melting point/freezing point (°C): Not determined Initial boiling point and boiling range (°C): Not determined Flash point (°C): Not applicable. 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 Upper/lower flammability limit (%): Not determined

ISO 4316 Not relevant to classification of this product

Not relevant to classification of this product

Vapour pressure: Not determined Vapour density: Not determined Relative density: 1.0 Solubility in / Miscibility with Water: Not miscible or difficult to mix Partition coefficient: n-octanol/water No information available. Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3 Autoignition temperature: Not determined Decomposition temperature: Not applicable. Viscosity: Not determined Explosive properties: Not explosive. 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): >5000

ATE - Dermal (mg/kg): >5000

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

# Acute toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
alkyldimethylbenzylammoniumchloride	LD 50	398	Rat		
pine, ext.		No data available			

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
alkyldimethylbenzylammoniumchloride	LD 50	3412	Rabbit	Method not given	
pine, ext.		No data available			

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
alkyldimethylbenzylammoniumchloride		No data			
		available			
pine, ext.		No data			
		available			

Not relevant to classification of this product

# Irritation and corrosivity Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
alkyldimethylbenzylammoniumchloride	Corrosive	Rabbit	Method not given	
pine, ext.	No data available			

Eye irritation and corrosivity				
Ingredient(s)	Result	Species	Method	Exposure time
alkyldimethylbenzylammoniumchloride	Severe damage		Method not given	
pine, ext.	No data available			

### Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
alkyldimethylbenzylammoniumchloride	No data available			
pine, ext.	No data available			

# Sensitisation Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
alkyldimethylbenzylammoniumchloride	Not sensitising	Guinea pig	OECD 406 (EU B.6) / Buehler test	
pine, ext.	No data available			

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
alkyldimethylbenzylammoniumchloride	No data available			
pine, ext.	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)
alkyldimethylbenzylammoniumchloride		OECD 471 (EU B.12/13) OECD 476 OECD 473	test results	OECD 474 (EU B.12)
pine, ext.	No data available		No data available	

# Carcinogenicity

Ingredient(s)	Effect
alkyldimethylbenzylammoniumchloride	No data available
pine, ext.	No data available

# Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value	Species	Method	Exposure	Remarks and other effects
			(mg/kg bw/d)			time	reported
alkyldimethylbenzylam			No data				
moniumchloride			available				
pine, ext.			No data				
			available				

# Repeated dose toxicity Sub-acute or sub-chronic oral toxicity

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Specific effects and organs
		(mg/kg bw/d)			time (days)	affected
alkyldimethylbenzylammoniumchloride		No data				
		available				
pine, ext.		No data				
		available				

### Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Specific effects and organs
		(mg/kg bw/d)			time (days)	affected
alkyldimethylbenzylammoniumchloride		No data				
		available				
pine, ext.		No data				
		available				

### Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Specific effects and organs
		(mg/kg bw/d)			time (days)	affected
alkyldimethylbenzylammoniumchloride		No data				
		available				
pine, ext.		No data				
		available				

Chronic toxicity

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Ingredient(s)	Exposure route	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time	Specific effects and organs affected	Remark
alkyldimethylbenzylam moniumchloride			No data available					
pine, ext.			No data available					

### STOT-single exposure

Ingredient(s)	Affected organ(s)
alkyldimethylbenzylammoniumchloride	No data available
pine, ext.	No data available

### STOT-repeated exposure

Ingredient(s)	Affected organ(s)
alkyldimethylbenzylammoniumchloride	No data available
pine, ext.	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

short-term	

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
alkyldimethylbenzylammoniumchloride	LC 50	0.515	Fish	Method not given	96
pine, ext.		No data available			

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
alkyldimethylbenzylammoniumchloride	EC 50	0.016	Daphnia	Method not given	48
pine, ext.		No data available			

### Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
alkyldimethylbenzylammoniumchloride	EC 50	0.02	Selenastrum capricornutum	OECD 201 (EU C.3)	72
pine, ext.		No data available			

Aquatic short-term toxicity - marine species					
Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)
		(mg/l)			ume (uays)
alkyldimethylbenzylammoniumchloride		No data			-
		available			
pine, ext.		No data			
		available			

### Impact on sewage plants - toxicity to bacteria

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Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
alkyldimethylbenzylammoniumchloride	EC 20	5	Activated sludge	OECD 209	0.5 hour(s)
pine, ext.		No data available			

# Aquatic long-term toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
alkyldimethylbenzylammoniumchloride		No data available				

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pine, ext.	No da	ata		
	availa			

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
alkyldimethylbenzylammoniumchloride	NOEC	0.025	Daphnia magna	OECD 211	21 day(s)	
pine, ext.		No data available				

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

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed
		(mg/kg dw			time (days)	
		sediment)				
alkyldimethylbenzylammoniumchloride		No data			-	
		available				
pine, ext.		No data				
		available				

### **Terrestrial toxicity**

Ţ	errestrial toxicity	<ul> <li>soil invertebrates,</li> </ul>	including	earthworr	ns, if availabl	e:	

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

Terrestrial toxicity - plants, if available:

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

### Terrestrial toxicity - birds, if available:

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

# Terrestrial toxicity - beneficial insects, if available:

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

### Terrestrial toxicity - soil bacteria, if available:

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

### 12.2 Persistence and degradability

Abiotic degradation - photodegradation in air, if available:

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

### Biodegradation

Ready biodegradability - aerobic conditions						
Ingredient(s)	Inoculum	Analytical	DT 50	Method	Evaluation	
alkyldimethylbenzylammoniumchloride		method Oxygen depletion	> 60%	Read across	Readily biodegradable	
pine, ext.					Not readily biodegradable.	

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

### 12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

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Ingredient(s)	Value	Method	Evaluation	Remark	
alkyldimethylbenzylammoniumchloride	2.88	OECD 107	No bioaccumulation expected		

pine, ext.	No data available			
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### Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
alkyldimethylbenzylam	0.5		Method not given	No bioaccumulation expected	
moniumchloride					
pine, ext.	No data available				

### 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
alkyldimethylbenzylammoniumchloride	No data available				
pine, ext.	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**

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

14.1 UN number: Non-dangerous goods

14.2 UN proper shipping name: Non-dangerous goods

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

14.4 Packing group: Non-dangerous goods

14.5 Environmental hazards: Non-dangerous goods

Environmentally hazardous: No

Marine pollutant: No

14.6 Special precautions for user: Non-dangerous goods

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: The product is not transported in bulk tankers. Non-dangerous goods

### Other relevant information:

Hazchem code: None allocated

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	HSR002530.
Group standard	Cleaning Products (Subsidiary Hazard) Group Standard 2017
Inventory Listing(s)	New Zealand: NZIoC (New Zealand Inventory of Chemicals)
	All components are listed on the NZIoC inventory, or are exempt

# SECTION 16: Other information

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

Version: 01.0

**SDS code:** MS32000277

### Abbreviations and acronyms:

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

Revision: 2018-09-03

EC No. - European Community Number
 OECD - Organization for Economic Cooperation and Development

End of Safety Data Sheet