Safety Data Sheet

R7 CREAM CLEANER

Revision: 2023-02-16 **Version:** 03.0

SECTION 1: Identification of the substance/mixture and supplier

1.1 Product identifier
Product name: R7 CREAM CLEANER

1.2 Recommended use and restrictions on use
Identified uses:
Restroom/bathroom 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

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

Acute aquatic toxicity, Category 2

2.2 Label elements
Hazard statements:
H401 - Toxic to aquatic life.

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
sulphonic acids, C14-17-sec-alkane, sodium salts	97489-15-1	307-055-2	1-3
alkyl alcohol ethoxylate	160875-66-1	[4]	1-3
pyridine-2-thiol 1-oxide, sodium salt	3811-73-2	223-296-5	0.1-1

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

[4] Polymer.
Workplace exposure limit(s), if available, are listed in subsection 8.1.

SECTION 4: First aid measures

4.1 Description of first aid measures

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 effects, both acute and delayed

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

Dilute with plenty of water. 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

Dyke to collect large liquid spills. Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust). Do not place spilled materials back into the original container. Collect in closed and suitable containers for disposal.

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. 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.
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 undiluted product:

Appropriate engineering controls: No special requirements under normal use conditions.
Appropriate organisational controls: No special requirements under normal use conditions.

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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

	Method / remark
Physical state: Liquid	
Colour: Milky , White	
Odour: Product specific	
Odour threshold: Not applicable	
pH: ≈ 10 (neat)	ISO 4316
Melting point/freezing point (°C): Not determined	N.A.
Initial boiling point and boiling range (°C): Not determined	
Flammability (liquid): Not flammable.	
Flash point (°C): > 93 °C	closed cup
Sustained combustion: The product does not sustain combustion *(UN Manual of Tests and Criteria, section 32, L.2)*	
Evaporation rate: Not relevant for classification of this product.	Not relevant to classification of this product
Flammability (solid, gas): Not applicable to liquids	
Lower and upper explosion limit/flammability limit (%): Not determined	
Vapour pressure: See substance data.	
Relative vapour density -	Not relevant to classification of this product
Relative density: ≈ 1.26 (20 °C)	OECD 109 (EU A.3)
Solubility in / Miscibility with water: Fully miscible	
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	N.A
Decomposition temperature: Not applicable.	
Viscosity: ≈ 105 mPa.s (20 °C)	
Explosive properties: Not explosive.	N.A
Oxidising properties: Not oxidising.	N.A.

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, mists (mg/l): >5

Eye irritation and corrosivity
Result: Not corrosive or irritant **Species:** Not applicable. **Method:** Weight of evidence

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)
sulphonic acids, C14-17-sec-alkane, sodium salts	LD_{50}	> 500-2000	Rat	OECD 401 (EU B.1)	
alkyl alcohol ethoxylate	LD_{50}	> 2000-5000	Rat	OECD 423 (EU B.1 tris)	
pyridine-2-thiol 1-oxide, sodium salt	LD_{50}	500		OECD 423 (EU B.1 tris)	

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
sulphonic acids, C14-17-sec-alkane, sodium salts	LD_{50}	> 2000	Mouse	Weight of evidence	
alkyl alcohol ethoxylate	LD_{50}	> 5000	Rat	OECD 402 (EU B.3)	
pyridine-2-thiol 1-oxide, sodium salt	LD_{50}	788	Rabbit	EPA OPP 81-2	24

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sulphonic acids, C14-17-sec-alkane, sodium salts		No data available			
alkyl alcohol ethoxylate		No data available			
pyridine-2-thiol 1-oxide, sodium salt	LC_{50}	0.5 - 1 (mist)	Rat	OECD 403 (EU B.2)	4

Irritation and corrosivity
Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sulphonic acids, C14-17-sec-alkane, sodium salts	Irritant	Rabbit	OECD 404 (EU B.4) Read across	
alkyl alcohol ethoxylate	Mild irritant	Rabbit	OECD 404 (EU B.4)	
pyridine-2-thiol 1-oxide, sodium salt	Irritant	Rabbit	OECD 404 (EU B.4)	4 hour(s)

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sulphonic acids, C14-17-sec-alkane, sodium salts	Severe damage		OECD 405 (EU B.5)	
alkyl alcohol ethoxylate	Irritant	Rabbit	OECD 405 (EU B.5)	
pyridine-2-thiol 1-oxide, sodium salt	Irritant	Rabbit	EPA OPP 81-4	24 hour(s)

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sulphonic acids, C14-17-sec-alkane, sodium salts	No data available			
alkyl alcohol ethoxylate	No data available			
pyridine-2-thiol 1-oxide, sodium salt	No data available			

Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
sulphonic acids, C14-17-sec-alkane, sodium salts	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT Read across	
alkyl alcohol ethoxylate	Not sensitising		Weight of evidence	
pyridine-2-thiol 1-oxide, sodium salt	Sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
sulphonic acids, C14-17-sec-alkane, sodium salts	No data available			
alkyl alcohol ethoxylate	No data available			
pyridine-2-thiol 1-oxide, sodium salt	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)
sulphonic acids, C14-17-sec-alkane, sodium salts	No evidence for mutagenicity, negative test results	Method not given	No evidence for mutagenicity, negative test results	Method not given
alkyl alcohol ethoxylate	No data available		No data available	
pyridine-2-thiol 1-oxide, sodium salt	No data available		No data available	

Carcinogenicity

Ingredient(s)	Effect
sulphonic acids, C14-17-sec-alkane, sodium salts	No evidence for carcinogenicity, negative test results
alkyl alcohol ethoxylate	No data available
pyridine-2-thiol 1-oxide, sodium salt	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
sulphonic acids, C14-17-sec-alkane, sodium salts			No data available				No evidence for reproductive toxicity
alkyl alcohol ethoxylate			No data available				
pyridine-2-thiol 1-oxide, sodium salt			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
sulphonic acids, C14-17-sec-alkane, sodium salts	NOAEL	200	Rat	Method not given		
alkyl alcohol ethoxylate		No data available				
pyridine-2-thiol 1-oxide, sodium salt		No data available				

Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
sulphonic acids, C14-17-sec-alkane, sodium salts		No data available				
alkyl alcohol ethoxylate		No data available				
pyridine-2-thiol 1-oxide, sodium salt		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
sulphonic acids, C14-17-sec-alkane, sodium salts		No data				

		available				
alkyl alcohol ethoxylate		No data available				
pyridine-2-thiol 1-oxide, sodium salt		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
sulphonic acids, C14-17-sec-alkane, sodium salts	Oral	NOAEL	> 4000	Rat	Method not given			
alkyl alcohol ethoxylate			No data available					
pyridine-2-thiol 1-oxide, sodium salt			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
sulphonic acids, C14-17-sec-alkane, sodium salts	No data available
alkyl alcohol ethoxylate	No data available
pyridine-2-thiol 1-oxide, sodium salt	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
sulphonic acids, C14-17-sec-alkane, sodium salts	No data available
alkyl alcohol ethoxylate	No data available
pyridine-2-thiol 1-oxide, sodium salt	Neuromuscular system

Aspiration hazard
Substances with an aspiration hazard (H304), if any, are listed in section 3.

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)
sulphonic acids, C14-17-sec-alkane, sodium salts	LC_{50}	1 - 10	*Brachydanio rerio*	OECD 203, static	96
alkyl alcohol ethoxylate		No data available			
pyridine-2-thiol 1-oxide, sodium salt	LC_{50}	0.00767	*Brachydanio rerio*	OECD 203, flow-through	96

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sulphonic acids, C14-17-sec-alkane, sodium salts	EC_{50}	9.81	*Daphnia magna Straus*	OECD 202 (EU C.2)	48
alkyl alcohol ethoxylate	EC_{50}	> 1 - 10	*Daphnia magna Straus*	OECD 202, static	48
pyridine-2-thiol 1-oxide, sodium salt	EC_{50}	0.150	*Daphnia magna Straus*	OECD 202, static	48

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sulphonic acids, C14-17-sec-alkane, sodium salts	EC_{50}	> 61	*Pseudokirchneriella subcapitata*	OECD 201 (EU C.3)	72
alkyl alcohol ethoxylate	EC_{50}	> 10 - 100	*Desmodesmus subspicatus*	Method not given	72
pyridine-2-thiol 1-oxide, sodium salt	EC_{50}	0.22	*Desmodesmus*	OECD 201, static	72

			subspicatus		

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
sulphonic acids, C14-17-sec-alkane, sodium salts		No data available			
alkyl alcohol ethoxylate		No data available			
pyridine-2-thiol 1-oxide, sodium salt		No data available			

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
sulphonic acids, C14-17-sec-alkane, sodium salts	NOEC	600	*Pseudomonas putida*	DIN 38412 / Part 8	16 hour(s)
alkyl alcohol ethoxylate	EC_{20}	180	*Activated sludge*	OECD 209	3 hour(s)
pyridine-2-thiol 1-oxide, sodium salt		No data available			

Aquatic long-term toxicity

Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
sulphonic acids, C14-17-sec-alkane, sodium salts	NOEC	0.85	*Oncorhynchus mykiss*	OECD 204	28 day(s)	
alkyl alcohol ethoxylate	NOEC	> 1	*Not specified*	Method not given		
pyridine-2-thiol 1-oxide, sodium salt		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
sulphonic acids, C14-17-sec-alkane, sodium salts	NOEC	0.36	*Daphnia magna*	OECD 202	22 day(s)	
alkyl alcohol ethoxylate		No data available				
pyridine-2-thiol 1-oxide, sodium salt		No data available				

Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if 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
sulphonic acids, C14-17-sec-alkane, sodium salts	NOEC	470	*Eisenia fetida*	OECD 222	56	

Terrestrial toxicity - plants, if available:

Terrestrial toxicity - birds, if available:

Terrestrial toxicity - beneficial insects, if available:

Terrestrial toxicity - soil bacteria, if available:

12.2 Persistence and degradability

Abiotic degradation

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 method	DT_{50}	Method	Evaluation

sulphonic acids, C14-17-sec-alkane, sodium salts	Activated sludge, aerobe	DOC reduction	89 % in 28 day(s)	OECD 301E	Readily biodegradable
alkyl alcohol ethoxylate	Activated sludge, aerobe	CO_2 production	> 60 % in 28 day(s)	OECD 301B	Readily biodegradable
pyridine-2-thiol 1-oxide, sodium salt	Activated sludge, aerobe	CO_2 production	79% in 28 day(s)	OECD 301B	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)

Ingredient(s)	Value	Method	Evaluation	Remark
sulphonic acids, C14-17-sec-alkane, sodium salts	No data available		No bioaccumulation expected	
alkyl alcohol ethoxylate	No data available	Method not given	No bioaccumulation expected	
pyridine-2-thiol 1-oxide, sodium salt	< -1.09	OECD 107	Low potential for bioaccumulation	

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
sulphonic acids, C14-17-sec-alkane, sodium salts	No data available				
alkyl alcohol ethoxylate	No data available				
pyridine-2-thiol 1-oxide, sodium salt	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
sulphonic acids, C14-17-sec-alkane, sodium salts	No data available				
alkyl alcohol ethoxylate	No data available				Potential for adsorption to soil
pyridine-2-thiol 1-oxide, sodium salt	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.

European Waste Catalogue: 20 01 30 - detergents other than those mentioned in 20 01 29.

Empty packaging

Recommendation: Dispose of observing national or local regulations.

Suitable cleaning agents: Water, if necessary with cleaning agent.

SECTION 14: Transport information

ADG, IMO/IMDG, ICAO/IATA

14.1 UN number or ID 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

14.6 Special precautions for user: Non-dangerous goods

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

Other relevant information:

Hazchem code: None allocated

IMO/IMDG

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	HSR002530.
Group standard	Cleaning Products (Subsidiary Hazard) 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	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: MS32000684 **Version:** 03.0 **Revision:** 2023-02-16

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

End of Safety Data Sheet