



Safety Data Sheet

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AQUENCE GA 1251C known as Adhesin 1251C 21KG

SDS No. : 429260

V001.5

Date of issue: 27.02.2025

Section 1. Identification of the substance/preparation and of the company/undertaking

Product name: AQUENCE GA 1251C known as Adhesin 1251C 21KG

Intended use: Water based adhesive

Supplier:

Henkel Australia Pty Ltd
135-141 Canterbury Road
Kilsyth, Victoria, 3137
Australia

Phone: +61 (3) 9724 6444

E-mail address of person responsible for Safety Data Sheet: SDSinfo.Adhesive@henkel.com

Emergency Telephone for Chemical Accidents: 24 HOUR EMERGENCY CONTACT NUMBER: 1800 032 379

Section 2. Hazards identification

Classification of the substance or mixture

Hazardous according to the criteria of Safe Work Australia.

GHS Classification:

<u>Hazard Class</u>	<u>Hazard Category</u>
Skin sensitizer	Category 1
Acute hazards to the aquatic environment	Category 3
Chronic hazards to the aquatic environment	Category 3

Hazard pictogram:



Signal word:

Warning

Hazard statement(s):	H317 May cause an allergic skin reaction. H412 Harmful to aquatic life with long lasting effects.
Precautionary Statement(s):	
Prevention:	P261 Avoid breathing mist/vapours. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear protective gloves.
Response:	P302+P352 IF ON SKIN: Wash with plenty of water. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse.
Disposal:	P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations.

Dangerous Goods information:

Not classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).

Section 3. Composition / information on ingredients

General chemical description: Mixture

Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
isobutyric acid, monoester with 2,2,4-trimethylpentane-1,3-diol	25265-77-4	< 10 %
Dodecane-1-thiol	112-55-0	0.1- < 1 %
methanol	67-56-1	< 1 %
3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (3:1)	55965-84-9	0.0015- < 0.06 %
non hazardous ingredients~		60- <= 100 %

Section 4. First aid measures

Ingestion:	Rinse out mouth. Do not drink. In case of adverse health effects seek medical advice.
Skin:	Rinse with running water and soap. If symptoms develop and persist, get medical attention.
Eyes:	Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.
Inhalation:	Move to fresh air. If symptoms persist, seek medical advice.
First Aid facilities:	Eye wash Normal washroom facilities
Medical attention and special treatment:	Treat symptomatically.

Section 5. Fire fighting measures

Suitable extinguishing media: Extinguish using agent suitable for type of surrounding fire.

Decomposition products in case of fire: carbon oxides.
Irritating organic vapours.

Special protective equipment for fire-fighters: Wear protective equipment.
Wear self-contained breathing apparatus.

Section 6. Accidental release measures

Personal precautions: See advice in section 8
Danger of slipping on spilled product.

Environmental precautions: Do not empty into drains / surface water / ground water.

Clean-up methods: For small spills wipe up with paper towel and place in container for disposal.
For large spills absorb onto inert absorbent material and place in sealed container for disposal.

Section 7. Handling and storage

Precautions for safe handling: See advice in section 8
Wear suitable protective clothing, gloves and eye/face protection.

Conditions for safe storage: Store in a cool, well-ventilated place.
Keep container tightly sealed and store in a frost free place.
Storage temperature between 5 and 35°C.
Protect from freezing.

Section 8. Exposure controls / personal protection

National exposure standards:

Ingredient [Regulated substance]	form of exposure	TWA (ppm)	TWA (mg/m3)	Peak Limit. (ppm)	Peak Limit. (mg/m3)	STEL (ppm)	STEL (mg/m3)
Methyl alcohol 67-56-1		200	262				
Methyl alcohol 67-56-1						250	328

Engineering controls: Ensure adequate ventilation.

Eye protection: Safety glasses.

Skin protection: Use of protective coveralls and long sleeves is recommended.
Protective gloves made of rubber.
Please note that in practice the working life of chemical resistant gloves may be considerably reduced as a result of many influencing factors (e.g. temperature). Suitable risk assessment should be carried out by the end user. If signs of wear and tear are noticed then the gloves should be replaced.

Respiratory protection: If inhalation risk exists, wear a respirator or air supplied mask complying with the requirements of AS/NZS 1715 and AS/NZS 1716.

Section 9. Physical and chemical properties

Appearance:	white liquid
Odor:	mild
pH:	5.5
Specific gravity:	1.06
Boiling point:	100 °C (212 °F)
Flash point:	Not applicable
Solubility in water:	Miscible
Viscosity (dynamic):	4,500 mPa.s; 23 °C (73.4 °F); Method: no method / method unknown)

Section 10. Stability and reactivity

Stability:	Stable under normal conditions of temperature and pressure.
Conditions to avoid:	Excessive heat. Freezing conditions.
Incompatible materials:	None known
Hazardous decomposition products:	Carbon dioxide, carbon monoxide and irritating and/or toxic gases and particulate may be generated by thermal decomposition or combustion.

Section 11. Toxicological information

Health Effects:

Ingestion:

Ingestion of large amounts may produce gastrointestinal disturbances including irritation, nausea, and diarrhea.

Skin:

Prolonged or repeated contact may cause irritation.

May cause skin sensitization.

Eyes:

May cause mild irritation

Inhalation:

Inhalation of mist or spray may cause irritation of the respiratory tract and nasal passages.

Chronic effects:

methanol

67-56-1:

Neurological symptoms; irritation to the nasal mucous membranes through exposure to higher vapor concentrations; headaches, blurred vision and nausea; damage to the skin due to repeated contact; prenatal toxic effects were seen in rats and mice.

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
isobutyric acid, monoester with 2,2,4- trimethylpentane-1,3-diol 25265-77-4	LD50 LD50	6,500 mg/kg > 15,200 mg/kg	oral dermal		rat rabbit	not specified not specified
Dodecane-1-thiol 112-55-0	LD50 LD50	> 5,000 mg/kg > 2,000 mg/kg	oral dermal		rat rat	OECD Guideline 401 (Acute Oral Toxicity) equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity)
methanol 67-56-1	Acute toxicity estimate (ATE) Acute toxicity estimate (ATE)	300 mg/kg 300 mg/kg	oral dermal			Expert judgement Expert judgement
3(2H)-Isothiazolone, 5- chloro-2-methyl-, mixt. with 2-methyl-3(2H)- isothiazolone (3:1) 55965-84-9	LD50 LC50 LD50	66 mg/kg 0.171 mg/l 87.12 mg/kg	oral inhalation dermal	4 h	rat rat rabbit	OECD Guideline 401 (Acute Oral Toxicity) OECD Guideline 403 (Acute Inhalation Toxicity) OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
isobutyric acid, monoester with 2,2,4- trimethylpentane-1,3-diol 25265-77-4	Category 3 (mild irritant)	4 h	rabbit	EU Method B.4 (Acute Toxicity: Dermal Irritation / Corrosion)
Dodecane-1-thiol 112-55-0	Category 1C (corrosive)	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
methanol 67-56-1	not irritating	20 h	rabbit	BASF Test
3(2H)-Isothiazolone, 5- chloro-2-methyl-, mixt. with 2-methyl-3(2H)- isothiazolone (3:1) 55965-84-9	corrosive	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
isobutyric acid, monoester with 2,2,4- trimethylpentane-1,3-diol 25265-77-4	slightly irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
methanol 67-56-1	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
3(2H)-Isothiazolone, 5- chloro-2-methyl-, mixt. with 2-methyl-3(2H)- isothiazolone (3:1) 55965-84-9	Category 1 (irreversible effects on the eye)		rabbit	not specified

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
isobutyric acid, monoester with 2,2,4- trimethylpentane-1,3-diol 25265-77-4	not sensitising	Guinea pig maximisa- tion test	guinea pig	EU Method B.6 (Skin Sensitisation)
Dodecane-1-thiol 112-55-0	sensitising	Mouse local lymphnod- e assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
methanol 67-56-1	not sensitising	Guinea pig maximisa- tion test	guinea pig	equivalent or similar to OECD Guideline 406 (Skin Sensitisation)
3(2H)-Isothiazolone, 5- chloro-2-methyl-, mixt. with 2-methyl-3(2H)- isothiazolone (3:1) 55965-84-9	sensitising	Guinea pig maximisa- tion test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
3(2H)-Isothiazolone, 5- chloro-2-methyl-, mixt. with 2-methyl-3(2H)- isothiazolone (3:1) 55965-84-9	sensitising	Mouse local lymphnod- e assay (LLNA)	mouse	not specified

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
isobutyric acid, monoester with 2,2,4- trimethylpentane-1,3-diol 25265-77-4	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
isobutyric acid, monoester with 2,2,4- trimethylpentane-1,3-diol 25265-77-4	negative	oral: gavage		mouse	equivalent or similar to OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Dodecane-1-thiol 112-55-0	negative negative	bacterial reverse mutation assay (e.g Ames test) mammalian cell gene mutation assay	with and without with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Dodecane-1-thiol 112-55-0	negative	oral: gavage		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
methanol 67-56-1	negative negative negative	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian cell micronucleus test mammalian cell gene mutation assay	with and without without with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay) not specified equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
methanol 67-56-1	negative	intraperitoneal		mouse	equivalent or similar to OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
3(2H)-Isothiazolone, 5- chloro-2-methyl-, mixt. with 2-methyl-3(2H)- isothiazolone (3:1) 55965-84-9	ambiguous positive positive negative	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test mammalian cell gene mutation assay DNA damage and repair assay, unscheduled DNA synthesis in mammalian cells in vitro	with and without with and without with and without not applicable		equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay) EPA OPP 84-2 (Mutagenicity Testing) OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro)
3(2H)-Isothiazolone, 5- chloro-2-methyl-, mixt. with 2-methyl-3(2H)- isothiazolone (3:1) 55965-84-9	negative negative negative negative	oral: gavage oral: gavage oral: feed oral: gavage oral: gavage		mouse mouse Drosophila melanogaster rat rat	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test) OECD Guideline 477 (Genetic Toxicology: Sex-linked Recessive Lethal Test in Drosophila melanogaster) OECD Guideline 486 (Unscheduled DNA Synthesis (UDS) Test with Mammalian Liver Cells in vivo) EPA OPP 84-2 (Mutagenicity Testing)

Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
isobutyric acid, monoester with 2,2,4-trimethylpentane-1,3-diol 25265-77-4	NOAEL=1,000 mg/kg	oral: gavage	51 daysdaily	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
methanol 67-56-1	NOAEL=6.63 mg/l	inhalation: vapour	4 weeks6 h/d, 5 d/w	rat	equivalent or similar to OECD Guideline 412 (Repeated Dose Inhalation Toxicity: 28/14-Day)
methanol 67-56-1	NOAEL=0.13 mg/l	inhalation: vapour	12 m20 h/d	rat	equivalent or similar to OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9	NOAEL=16.3 mg/kg	oral: drinking water	90 ddaily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9	NOAEL=0.34 mg/m3	inhalation: aerosol	90 d6 h/d, 5 d/w	rat	OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)
3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9	NOAEL=2.625 mg/kg	dermal	90 d6 h/d	rat	EPA OPP 82-3 (Subchronic Dermal Toxicity 90 Days)

Section 12. Ecological information

General ecological information: Do not empty into drains / surface water / ground water.

Ecotoxicity:

H412 Harmful to aquatic life with long lasting effects.

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
isobutyric acid, monoester with 2,2,4-trimethylpentane- 1,3-diol 25265-77-4	LC50	33 mg/l	Fish	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
isobutyric acid, monoester with 2,2,4-trimethylpentane- 1,3-diol 25265-77-4	EC50	147.8 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
isobutyric acid, monoester with 2,2,4-trimethylpentane- 1,3-diol 25265-77-4	EC50	15 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
isobutyric acid, monoester with 2,2,4-trimethylpentane- 1,3-diol 25265-77-4	NOEC	4 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Dodecane-1-thiol 112-55-0	LC50	Toxicity > Water solubility	Fish	96 h	Oncorhynchus mykiss	EPA OTS 797.1400 (Fish Acute Toxicity Test)
Dodecane-1-thiol 112-55-0	EC50	Toxicity > Water solubility	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Dodecane-1-thiol 112-55-0	EC50	0.0145 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Dodecane-1-thiol 112-55-0	EC10	0.0145 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
methanol 67-56-1	LC50	15,400 mg/l	Fish	96 h	Lepomis macrochirus	EPA-660 (Methods for Acute Toxicity Tests with Fish, Macroinvertebrates and Amphibians)
methanol 67-56-1	NOEC	7,900 mg/l	Fish	200 h	Oryzias latipes	OECD Guideline 210 (fish early lite stage toxicity test)
methanol 67-56-1	EC50	18,260 mg/l	Daphnia	96 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
methanol 67-56-1	EC50	22,000 mg/l	Algae	96 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
methanol 67-56-1	IC50	> 1,000 mg/l	Bacteria	3 h	activated sludge of a predominantly domestic sewage	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
3(2H)-Isothiazolone, 5-chloro- 2-methyl-, mixt. with 2- methyl-3(2H)-isothiazolone (3:1) 55965-84-9	LC50	0.22 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
3(2H)-Isothiazolone, 5-chloro- 2-methyl-, mixt. with 2- methyl-3(2H)-isothiazolone (3:1) 55965-84-9	NOEC	0.098 mg/l	Fish	28 d	Oncorhynchus mykiss	OECD Guideline 210 (fish early lite stage toxicity test)
3(2H)-Isothiazolone, 5-chloro- 2-methyl-, mixt. with 2- methyl-3(2H)-isothiazolone (3:1) 55965-84-9	EC50	0.12 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9	EC50	0.0052 mg/l	Algae	72 h	Skeletonema costatum	OECD Guideline 201 (Alga. Growth Inhibition Test)
3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9	NOEC	0.00064 mg/l	Algae	48 h	Skeletonema costatum	OECD Guideline 201 (Alga. Growth Inhibition Test)
3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9	EC20	0.97 mg/l	Bacteria	3 h	activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
isobutyric acid, monoester with 2,2,4-trimethylpentane-1,3-diol 25265-77-4	readily biodegradable	aerobic	77 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
isobutyric acid, monoester with 2,2,4-trimethylpentane-1,3-diol 25265-77-4	inherently biodegradable	aerobic	99.5 %	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
Dodecane-1-thiol 112-55-0	not readily biodegradable.	aerobic	39.2 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
methanol 67-56-1	readily biodegradable	aerobic	82 - 92 %	EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test)
3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9	inherently biodegradable	aerobic	100 %	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9	readily biodegradable	aerobic	> 60 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)

Bioaccumulative potential / Mobility in soil:

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
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isobutyric acid, monoester with 2,2,4-trimethylpentane-1,3-diol 25265-77-4		44.1		calculated		QSAR (Quantitative Structure Activity Relationship)
isobutyric acid, monoester with 2,2,4-trimethylpentane-1,3-diol 25265-77-4	3.2				25 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
Dodecane-1-thiol 112-55-0	> 6.5				25 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
methanol 67-56-1		< 10	72 h	Leuciscus idus melanotus		not specified
methanol 67-56-1	-0.77					other guideline:
3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9		3.6		calculation		QSAR (Quantitative Structure Activity Relationship)
3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9	> -0.71 - 0.75				20 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)

Section 13. Disposal considerations

- Waste disposal of product:** Dispose of according to Federal, State and local governmental regulations.
- Recommended cleanser:** Clean the packaging with water.
- Disposal for uncleaned package:** Packaging that cannot be cleaned are to be disposed of in the same manner as the product.

Section 14. Transport information

Road and Rail Transport:

Dangerous Goods information: Not classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).

Marine transport IMDG:

Not dangerous goods

Air transport IATA:

Not dangerous goods

Section 15. Regulatory information

SUSMP Poisons Schedule None

AIIC: All components are listed or are exempt from listing on the Australian Inventory of Industrial Chemicals or Introduced under AICIS.

Section 16. Other information

Abbreviations/acronyms: IMDG: International Maritime Dangerous Goods code
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations
ADGC - Australian Dangerous Goods Code
AIIC - Australian Inventory of Industrial Chemicals (AIIC)
AICIS - Australian Industrial Chemicals Introduction Scheme

Reason for issue: Reviewed SDS. Reissued with new date. involved chapters: 1 - 16

Date of previous issue: 11.10.2021

Disclaimer:

The percentage weight (% w/w) of ingredients is not to be taken as a specification guaranteed by Henkel Australia Pty. Limited, but only as an approximate guide to the content of hazardous ingredients in the material. The information contained herein does not constitute a guarantee by Henkel Australia Pty. Limited concerning the properties of the material.

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