



Safety Data Sheet

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AQUENCE FB 7371 known as Adhesin A 7371

SDS No. : 43602

V003.6

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

Product name:

AQUENCE FB 7371 known as Adhesin A 7371

Other means of identification:

AQUENCE FB 7371 TH IBC25KG

Product code:

IDH373985

Recommended use of the chemical and restrictions on use

Intended use:

paper- and packaging adhesive

Identification of manufacturer, importer or distributor

Manufacturer: Henkel Thailand Ltd Amata Nakorn Industrial Estate, 700/349 Mu 6, Tambol Nong Mai Daeng, Amphur Muang, Chonburi 20000, Thailand. Phone : +6638456300 Fax : +6638456393

E-mail address of person responsible for Safety Data Sheet:

ap-ua-psra.sea@henkel.com

Emergency information:

FOR EMERGENCIES ONLY (Spill, major leak, Fire, Exposure, or Accident). Call CHEMTREC: +1 703-741-5970

Section 2. Hazards identification

GHS Classification:

Hazard Class

Acute hazards to the aquatic environment

Hazard Category

Category 3

GHS label elements:

Hazard statement:

H402 Harmful to aquatic life.

Precaution:

Prevention:

P273 Avoid release to the environment.

Disposal:

P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Section 3. Composition / information on ingredients

Substance or Mixture:

Mixture

Declaration of hazardous chemical:

Hazard component CAS-No.	Content	GHS Classification
Oxydiethylene dibenzoate 120-55-8	1- 10 %	Acute toxicity 5; Oral H303 Acute hazards to the aquatic environment 2 H401
Oxydipropyl dibenzoate 27138-31-4	1- 10 %	Acute toxicity 5; Oral H303 Acute hazards to the aquatic environment 2 H401 Chronic hazards to the aquatic environment 3 H412
Aziridine, homopolymer 9002-98-6	0.1- 1 %	Acute toxicity 4; Oral H302 Serious eye damage/eye irritation 2A H319 Skin sensitizer 1 H317 Acute hazards to the aquatic environment 2 H401 Chronic hazards to the aquatic environment 2 H411
bronopol 52-51-7	< 0.1 %	Acute toxicity 3; Oral H301 Acute toxicity 4; Dermal H312 Skin corrosion/irritation 2 H315 Serious eye damage/eye irritation 1 H318 Specific target organ toxicity - single exposure 3 H335 Acute hazards to the aquatic environment 1 H400 Chronic hazards to the aquatic environment 2 H411

Section 4. First aid measures

Inhalation:

Move to fresh air, consult doctor if complaint persists.

Skin contact:

Rinse with running water and soap. Apply replenishing cream. Change all contaminated clothing.

Eye contact:

Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.

Ingestion:

Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

Section 5. Fire fighting measures

Suitable extinguishing media:

All common extinguishing agents are suitable.

Improper extinguishing media:

High pressure waterjet

Specific hazards arising from the chemical:

In case of fire toxic gases can be released.

Special protection equipment and precautions for firefighters:

Wear self-contained breathing apparatus.

Wear protective equipment.

Section 6. Accidental release measures

Personal precautions:

Wear protective equipment.

Danger of slipping on spilled product.

See advice in section 8

Environmental precautions:

Do not empty into drains / surface water / ground water.

Clean-up methods:

Remove with liquid-absorbing material (sand, peat, sawdust).

Dispose of contaminated material as waste according to Section 13.

Section 7. Handling and storage

Handling:

Ensure good ventilation/suction at the workplace.

Avoid skin and eye contact.

Storage:

Ensure good ventilation/extraction.

Protect against contamination.

Frost-sensitive

Keep container tightly sealed and store in a frost free place.

Temperatures between + 15 °C and + 25 °C

Section 8. Exposure controls / personal protection

Components with specific control parameters for workplace:

Respiratory protection:

In case of aerosol formation, we recommend wearing of appropriate respiratory protection equipment with ABEK P2 filter (EN 14387).

This recommendation should be matched to local conditions.

Hand protection:

Chemical-resistant protective gloves (EN 374). Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374): Polychloroprene (CR; \geq 1 mm thickness) or natural rubber (NR; \geq 1 mm thickness) Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): Polychloroprene (CR; \geq 1 mm thickness) or natural rubber (NR; \geq 1 mm thickness) This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection:

Protective goggles

Protective eye equipment should conform to EN166.

Body protection:

Wear protective equipment.

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Engineering controls:

Ensure good ventilation/extraction.

General protection and hygiene measures:

Eyewash fountains and emergency showers are required.

Hygienic measures:

Do not eat, drink or smoke while working.

Wash hands before work breaks and after finishing work.

Section 9. Physical and chemical properties

Appearance:	white liquid, dispersion
Odor:	little intrinsic odour
Odor threshold (CA):	No data available.
pH: (Concentration: 100 % product)	7.0 - 10.0
Melting point / freezing point:	No data available.
Specific gravity:	No data available.
Boiling point:	100 °C (212 °F)
Flash point:	No flash point up to 100°C. Aqueous preparation.
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Lower explosive limit:	No data available.
Upper explosive limit:	No data available.
Vapor pressure:	No data available.
Vapor density:	No data available.
Density:	1.07 g/cm ³
Solubility:	fully miscible (20 °C)
Partition coefficient: n-octanol/water:	No data available.
Auto ignition:	No data available.
Decomposition temperature:	No data available.
Viscosity:	5,500 - 8,500 mPa.s

(Brookfield; Instrument: RVT; 23
°C (73.4 °F); speed of rotation:
20 min-1; Spindle No: 4; Conc.:
100 % product; Method: ;;
NFT76-102; CP05; T31;
viscosity, Brookfield)

VOC content: No data available.

Section 10. Stability and reactivity

Reactivity/Incompatible materials:

None if used for intended purpose.

Chemical stability:

Stable under recommended storage conditions.

Conditions to avoid:

None if used for intended purpose.

Hazardous decomposition products:

At higher temperatures acetic acid may be released.

Section 11. Toxicological information

Oral toxicity: Acute toxicity estimate (ATE) : > 5,000 mg/kg
Method: Calculation method

Symptoms of Overexposure: None known.

Acute oral toxicity:

Oxydiethylene dibenzoate 120-55-8	Value type	LD50
	Value	4,190 mg/kg
	Species	rat
	Method	OECD Guideline 401 (Acute Oral Toxicity)
Oxydipropyl dibenzoate 27138-31-4	Value type	LD50
	Value	3,914 mg/kg
	Species	rat
	Method	OECD Guideline 401 (Acute Oral Toxicity)
Aziridine, homopolymer 9002-98-6	Value type	Acute toxicity estimate (ATE)
	Value	500 mg/kg
	Species	
	Method	Expert judgement
Aziridine, homopolymer 9002-98-6	Value type	LD50
	Value	500 - 2,000 mg/kg
	Species	rat
	Method	OECD Guideline 423 (Acute Oral toxicity)
bronopol 52-51-7	Value type	LD50
	Value	193 - 211 mg/kg
	Species	rat
	Method	not specified
bronopol 52-51-7	Value type	Acute toxicity estimate (ATE)
	Value	193 mg/kg
	Species	
	Method	Expert judgement

Acute inhalative toxicity:

Oxydiethylene dibenzoate 120-55-8	Value type	LC50
	Value	> 200 mg/l
	Exposure time	4 h
	Species	rat
	Method	not specified
Oxydipropyl dibenzoate 27138-31-4	Value type	LC50
	Value	> 200 mg/l
	Exposure time	4 h
	Species	rat
	Method	not specified

Acute dermal toxicity:

Oxydiethylene dibenzoate 120-55-8	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rat
	Method	OECD Guideline 402 (Acute Dermal Toxicity)
Oxydipropyl dibenzoate 27138-31-4	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rat
	Method	OECD Guideline 402 (Acute Dermal Toxicity)
bronopol 52-51-7	Value type	LD50
	Value	1,600 mg/kg
	Species	rat
	Method	not specified

Skin corrosion/irritation:

Oxydiethylene dibenzoate 120-55-8	Result	not irritating
	Exposure time	4 h
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Oxydipropyl dibenzoate 27138-31-4	Result	not irritating
	Exposure time	4 h
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Aziridine, homopolymer 9002-98-6	Result	not irritating
	Exposure time	
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
bronopol 52-51-7	Result	irritating
	Exposure time	4 h
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

Oxydiethylene dibenzoate 120-55-8	Result	slightly irritating
	Exposure time	
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Oxydipropyl dibenzoate 27138-31-4	Result	not irritating
	Exposure time	
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Aziridine, homopolymer 9002-98-6	Result	not irritating
	Exposure time	
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
bronopol 52-51-7	Result	highly irritating
	Exposure time	
	Species	rabbit
	Method	Draize Test

Respiratory or skin sensitization:

Oxydiethylene dibenzoate 120-55-8	Result	not sensitising
	Test type	
	Species	guinea pig
	Method	OECD Guideline 406 (Skin Sensitisation)
Oxydipropyl dibenzoate 27138-31-4	Result	not sensitising
	Test type	Guinea pig maximisation test
	Species	guinea pig
	Method	OECD Guideline 406 (Skin Sensitisation)
Aziridine, homopolymer 9002-98-6	Result	sensitising
	Test type	Guinea pig maximisation test
	Species	guinea pig
	Method	OECD Guideline 406 (Skin Sensitisation)
bronopol 52-51-7	Result	not sensitising
	Test type	Guinea pig maximisation test
	Species	guinea pig
	Method	OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity:

Oxydiethylene dibenzoate 120-55-8	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Oxydiethylene dibenzoate 120-55-8	Result	negative
	Type of study / Route of administration	mammalian cell gene mutation assay
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Oxydiethylene dibenzoate 120-55-8	Result	negative
	Type of study / Route of administration	in vitro mammalian chromosome aberration test
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Oxydipropyl dibenzoate 27138-31-4	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Oxydipropyl dibenzoate 27138-31-4	Result	negative
	Type of study / Route of administration	in vitro mammalian chromosome aberration test
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Oxydipropyl dibenzoate 27138-31-4	Result	negative
	Type of study / Route of administration	mammalian cell gene mutation assay
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
bronopol 52-51-7	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	not specified
bronopol 52-51-7	Result	positive
	Type of study / Route of administration	in vitro mammalian chromosome aberration test
	Metabolic activation / Exposure time	with and without
	Method	not specified
bronopol 52-51-7	Result	negative
	Type of study / Route of administration	mammalian cell gene mutation assay
	Metabolic activation / Exposure time	with and without
	Method	not specified
bronopol 52-51-7	Result	negative
	Type of study / Route of administration	oral: gavage
	Metabolic activation / Exposure time	
	Species	mouse
bronopol 52-51-7	Method	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
	Result	negative
	Type of study / Route of administration	oral: gavage
	Metabolic activation / Exposure time	
bronopol 52-51-7	Species	rat
	Method	OECD Guideline 486 (Unscheduled DNA Synthesis (UDS) Test with Mammalian Liver Cells in vivo)

Repeated dose toxicity:

Oxydiethylene dibenzoate 120-55-8	Result	NOAEL=> 1,000 mg/kg
	Route of application	oral: feed
	Exposure time / Frequency of treatment	90 daysdaily
	Species	rat
	Method	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Oxydipropyl dibenzoate 27138-31-4	Result	NOAEL=1,000 mg/kg
	Route of application	oral: feed
	Exposure time / Frequency of treatment	13 wdaily
	Species	rat
	Method	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
bronopol 52-51-7	Result	NOAEL=7 mg/kg
	Route of application	oral: drinking water
	Exposure time / Frequency of treatment	104 wdaily
	Species	rat
	Method	not specified
bronopol 52-51-7	Result	LOAEL=20 mg/kg
	Route of application	oral: gavage
	Exposure time / Frequency of treatment	13 wdaily
	Species	rat
	Method	not specified

Section 12. Ecological information

General ecological information: Do not empty into drains, soil or bodies of water.

Ecotoxicity: Harmful to aquatic life.

Toxicity:

Oxydiethylene dibenzoate 120-55-8	Value type	LC50
	Value	2.9 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Oncorhynchus mykiss
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
Oxydiethylene dibenzoate 120-55-8	Value type	EC50
	Value	26 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Oxydiethylene dibenzoate 120-55-8	Value type	EC50
	Value	15 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
Oxydiethylene dibenzoate 120-55-8	Value type	EC10
	Value	> 100 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	3 h
	Species	
	Method	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Oxydipropyl dibenzoate 27138-31-4	Value type	LC50
	Value	3.7 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Pimephales promelas
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
Oxydipropyl dibenzoate 27138-31-4	Value type	EL50
	Value	19.3 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Oxydipropyl dibenzoate 27138-31-4	Value type	EL50
	Value	4.9 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	EL10
	Value	0.89 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
Oxydipropyl dibenzoate 27138-31-4	Value type	EC50
	Value	> 100 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	3 h
	Species	activated sludge of a predominantly domestic sewage
	Method	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Aziridine, homopolymer 9002-98-6	Value type	LC50
	Value	> 1 - 10 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Leuciscus idus
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
Aziridine, homopolymer 9002-98-6	Value type	EC10
	Value	0.2 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	17 h
	Species	
	Method	not specified
bronopol 52-51-7	Value type	LC50
	Value	41 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Oncorhynchus mykiss
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
	Value type	NOEC
	Value	21.5 mg/l
	Acute Toxicity Study	Fish
	Exposure time	30 d
	Species	Oncorhynchus mykiss
	Method	OECD Guideline 210 (fish early lite stage toxicity test)
bronopol 52-51-7	Value type	EC50
	Value	1.4 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
bronopol 52-51-7	Value type	EC50
	Value	0.37 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	NOEC
	Value	0.1 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
bronopol 52-51-7	Value type	EC50
	Value	43 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	3 h
	Species	activated sludge
	Method	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

Persistence and degradability:

Oxydiethylene dibenzoate 120-55-8	Result	readily biodegradable
	Route of application	aerobic

	Degradability	83 %
	Method	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Oxydipropyl dibenzoate 27138-31-4	Result	readily biodegradable
	Route of application	aerobic
	Degradability	85 %
	Method	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Aziridine, homopolymer 9002-98-6	Result	not inherently biodegradable
	Route of application	aerobic
	Degradability	20 - 70 %
	Method	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
bronopol 52-51-7	Result	readily biodegradable
	Route of application	aerobic
	Degradability	> 70 - 80 %
	Method	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
	Result	not inherently biodegradable
	Route of application	no data
	Degradability	50 %
	Method	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)

Bioaccumulative potential / Mobility in soil:

Oxydiethylene dibenzoate 120-55-8	LogPow	2.3
	Temperature	
	Method	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
Oxydipropyl dibenzoate 27138-31-4	LogPow	3.9
	Temperature	20 °C
	Method	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
bronopol 52-51-7	LogPow	0.22
	Temperature	24 °C
	Method	EU Method A.8 (Partition Coefficient)

Section 13. Disposal considerations**Product****Method of disposal:**

In consultation with the responsible local authority, must be subjected to special treatment.

Packaging**Disposal of uncleaned packages:**

Packaging that cannot be cleaned are to be disposed of in the same manner as the product.

Section 14. Transport information**Road transport ADR:**

Not dangerous goods

Railroad transport RID:

Not dangerous goods

Inland water transport ADN:

Not dangerous goods

Marine transport IMDG:

Not dangerous goods

Air transport IATA:

Not dangerous goods

Section 15. Regulatory information

Regulatory Information:

Ministry of Industry Notice. The system to classify and communicate the hazard of hazardous material, BE. 2555

Global inventory status:

Regulatory list	Notification
TSCA	yes
DSL	yes
KECI (KR)	yes
ENCS (JP)	yes
IECSC	yes
AICS	yes
PICCS (PH)	yes
CH INV	yes
EINECS	yes

Section 16. Other information

Disclaimer:

This Safety Data Sheet has been generated based on Ministry of Industry Notice. The system to classify and communicate the hazard of hazardous material, BE. 2555 only. No warranty or representation of any kind is given with respect to the substantive or export laws of any other jurisdiction or country. Please confirm that the information provided herein conforms to the substantive export or other law of any other jurisdiction prior to export. Please contact Henkel Product Safety and Regulatory Affairs for additional assistance. This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

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