



Safety Data Sheet According to NCh 2245.Of2003

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AQUENCE DL 245 A

SDS No. : 401074
V001.0

IDH-No.:

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1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Trade name:

AQUENCE DL 245 A

IDH-No.

Intended use:

Water based adhesive

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

ua-productsafety.la@henkel.com

Emergency information:

Citic Química: +56(2) 22473600 Citic Intoxicación: +56(2) 26353800

2. HAZARDS IDENTIFICATION

Mixture

Hazardous components	CAS-No.	%	UN no.:
Phenol-formaldehyde polymer	9003-35-4	3 - 5	
2-(2-Butoxyethoxy)ethyl acetate	124-17-4	3 - 5	
Acetic acid ethenyl ester, polymer with ethenol	25213-24-5	1 - 3	
Hydrogen chloride solution	7647-01-0	1 - <3	1050
Alcohols, C12-14, ethoxylated	68439-50-9	0,1 - 0,5	
Docosate sodium	577-11-7	0,1 - 0,5	

3. COMPOSITION/INFORMATION ON INGREDIENTS

EMERGENCY OVERVIEW

Physical state:	liquid	HEALTH:	2
Color:	brownish	FLAMMABILITY:	0
Odor:	characteristic	REACTIVITY:	0
		Specific Hazards:	Not available.
WARNING:	CAUSES EYE AND SKIN IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION. Harmful to aquatic organisms.		

Relevant routes of exposure: Ingestion, Eyes

Potential Health Effects

Inhalation: May cause irritation to nose and throat.
Skin contact: Causes skin irritation. May cause an allergic skin reaction.
Eye contact: Causes serious eye irritation.
Ingestion: May cause irritation of the stomach

Existing conditions aggravated by exposure: Not available.

See Section 11 for additional toxicological information.

Physical or chemical risks: No physical/chemical hazards are anticipated for this product.

Effects to the environment: Harmful to the environment. May cause pollution to the water bodies.

Emergency treatment to the main risk: Not available.



4. FIRST AID MEASURES

General information:

In case of exposure, immediate medical treatment necessary.

Inhalation:

Immediately remove victim to fresh air.
In case of adverse health effects seek medical advice.

Skin contact:

Rinse with running water and soap. Skin care. Remove contaminated clothes immediately.

Eye contact:

In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes, and seek immediate medical attention.

Ingestion:

Do not induce vomiting.
Seek medical advice.

Most important symptoms and effects, both acute and delayed

After skin contact: Moderate to strong irritation of the skin (redness, swelling, burning), severe burns also possible.
May cause an allergic skin reaction.
After eye contact: Moderate to strong irritation of the eyes (redness, swelling, burning, watering eyes).

Indication of any immediate medical attention and special treatment needed

Avoid the contact with the product during the rescue.
If necessary, symptomatic treatment should include support measures to correct electrolyte, metabolic disorders, and respiratory fai
In case of contact with the product do not rub the affected area.

5. FIREFIGHTING MEASURES

Suitable extinguishing media:

carbon dioxide, foam, powder, water spray jet, fine water spray

Extinguishing media which must not be used for safety reasons:

High pressure waterjet

Special protection equipment for firefighters:

Wear respiratory protection equipment according to ambient air conditions.

Hazardous combustion products:

Oxides of carbon.

6. ACCIDENTAL RELEASE MEASURES

General information:

Use personal protective equipment as described in Section 8.

Personal precautions:

Wear protective equipment.
Ensure adequate ventilation.

Environmental precautions:

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

Clean-up methods:

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

7. HANDLING AND STORAGE

Handling:

Ensure that workrooms are adequately ventilated.
Avoid skin and eye contact.
See advice in section 8

Storage:

Suitable material for containers: original container.
cool and dry, in tightly closed containers
Temperatures between + 5 °C and + 30 °C
Store in a cool place in closed original container.
For optimum shelf life store in original containers under refrigerated conditions at 2 - 8°C (35.6 - 46.4 °F)
It must maintain a distance of 1.2 m between hazardous the product and other hazardous substances.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational Exposure Limits

Valid for
Chile

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Hydrogen chloride 7647-01-0	5	6	Ceiling Limit Value:		CL OEL

Biological Exposure Indices:

None

Odor threshold:

Not available.

Engineering controls:

Ensure good ventilation/suction at the workplace.

Respiratory protection:

Suitable breathing mask when there is inadequate ventilation.

Hand protection:

The use of chemical resistant gloves such as Neoprene or Natural Rubber is recommended

Eye protection:

Wear protective glasses.

Skin protection:

Wear protective equipment.

Advices to personal protection equipment:

There is no thermal hazards.

General protection and hygiene measures:

Do not eat, drink or smoke while working.

Avoid skin and eye contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

General characteristics:

Appearance	liquid liquid brownish
Odor:	characteristic

Phys./chem. properties:

pH-value (25 °C (77 °F))	3,7 - 4,0
Boiling point	100 °C (212 °F)
Flash point	Not available.
Decomposition point	Not available.
Vapor pressure	Not available.
Density (20 °C (68 °F))	1,09 g/cm ³
Bulk density	Not available.
Viscosity (dynamic) (Brookfield; 25 °C (77 °F); speed of rotation: 20 min-1; Spindle No: 4)	2.800 - 3.200 mPa.s
Viscosity (kinematic)	Not available.
Flow cup viscosity	Not available.
Solubility (qualitative)	Not available.
solubility	Not available.
Solidification temperature	Not available.
Melting point	Not available.
Softening point/range	Not available.
Inflammability VDI 2263:	Not available.
Smolder temperature acc. to VDI 2263:	Not available.
Burning class acc. to VDI 2263:	Not available.
Auto ignition temperature	Not available.
Lower dust explosion limit	Not available.
Explosion limit	Not available.
Dust explosion class VDI 2263	Not available.
minimum ignition energy	Not available.
Octanol/Water distribution coefficient	Not available.
Evaporation rate:	Not available.
Vapor density:	Not available.
Solid content	Not available.
Ignition temperature	Not available.
VOC content	Not available.

10. STABILITY AND REACTIVITY

Chemical stability:

Stable under normal conditions of temperature and pressure.

Conditions to avoid:

Excessive heat.

Incompatible materials:

No data available.

Materials to avoid:

None known

Hazardous decomposition products:

In the event of a fire, carbon monoxide (CO), carbon dioxide (CO₂) and nitrogen oxides (NO_x) are released.

11. TOXICOLOGICAL INFORMATION

Skin irritation:

Causes skin irritation.

Eye irritation:

Causes serious eye irritation.

Sensitizing:

May cause an allergic skin reaction.

Acute oral toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Phenol-formaldehyde polymer 9003-35-4	LD50	4.100 mg/kg	oral		rat	
2-(2-Butoxyethoxy)ethyl acetate 124-17-4	LD50	11.920 mg/kg			rat	
Alcohols, C12-14, ethoxylated 68439-50-9	LD50	5.600 mg/kg			rat	
Docosate sodium 577-11-7	LD50	> 2.000 mg/kg			rat	

Acute inhalative toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Hydrogen chloride solution 7647-01-0	Acute toxicity estimate (ATE)	5,1 mg/l	inhalation			Expert judgement
Hydrogen chloride solution 7647-01-0	LC50	4,5 mg/l		30 min	rat	

Acute dermal toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Acetic acid ethenyl ester, polymer with ethenol 25213-24-5	LD50	> 7.490 mg/kg	dermal		rabbit	
Hydrogen chloride solution 7647-01-0	LD50	> 5.010 mg/kg			rabbit	

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Hydrogen chloride solution 7647-01-0	corrosive		rabbit	

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Hydrogen chloride solution 7647-01-0	highly irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Alcohols, C12-14, ethoxylated 68439-50-9	highly irritating	24 h	rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Hydrogen chloride solution 7647-01-0	not sensitising	Patch-Test	human	Patch Test

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
2-(2-Butoxyethoxy)ethyl acetate 124-17-4	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Hydrogen chloride solution 7647-01-0	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		
Alcohols, C12-14, ethoxylated 68439-50-9	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)

Carcinogenicity:

Not available.

Reproductive toxicity:

Not available.

Specific target organ toxicity - Single exposure:

Not available.

Specific target organ toxicity - Repeated exposure:

Not available.

Aspiration hazard:

Not available.

12. ECOLOGICAL INFORMATION

General ecological information:

Do not empty into drains, soil or bodies of water.
Harmful to aquatic organisms.

Ecotoxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposur e time	Species	Method
2-(2-Butoxyethoxy)ethyl acetate 124-17-4	LC50	50 - 70 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
2-(2-Butoxyethoxy)ethyl acetate 124-17-4	EC50	665 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
2-(2-Butoxyethoxy)ethyl acetate 124-17-4	EC0	1.575 mg/l	Bacteria	30 min		
Acetic acid ethenyl ester, polymer with ethenol 25213-24-5	LC50	40 mg/l	Fish	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
Acetic acid ethenyl ester, polymer with ethenol 25213-24-5	EC50	8,3 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Acetic acid ethenyl ester, polymer with ethenol 25213-24-5	EC 50	50 mg/l	Bacteria	17 h		DIN 38412, part 8 (Pseudomonas Zellvermehrungs hemm-Test)
Hydrogen chloride solution 7647-01-0	LC50	20,5 mg/l	Fish	96 h	Lepomis macrochirus	OECD Guideline 203 (Fish, Acute Toxicity Test)
Hydrogen chloride solution 7647-01-0	EC50	0,45 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Hydrogen chloride solution 7647-01-0	EC50	0,73 mg/l	Algae	72 h	Chlorella vulgaris	OECD Guideline 201 (Alga, Growth Inhibition Test)
Hydrogen chloride solution 7647-01-0	EC 50	0,23 mg/l	Bacteria	3 h	activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) DIN 38412-15
Alcohols, C12-14, ethoxylated 68439-50-9	LC50	1,5 mg/l	Fish	48 h	Leuciscus idus	
Alcohols, C12-14, ethoxylated 68439-50-9	EC50	2,5 mg/l	Daphnia	24 h	Daphnia magna	
Alcohols, C12-14, ethoxylated 68439-50-9	NOEC	> 0,1 - 1 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	DIN 38412-09
	EC50	0,87 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	DIN 38412-09
Alcohols, C12-14, ethoxylated 68439-50-9	EC0	10.000 mg/l	Bacteria	30 min		
Docusate sodium 577-11-7	LC50	10 mg/l	Fish	48 h	Leuciscus idus	DIN 38412-15
Docusate sodium 577-11-7	EC50	23 mg/l	Daphnia	24 h	Daphnia magna	
Docusate sodium 577-11-7	EC50	47 mg/l	Algae	96 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	DIN 38412-09
	EC0	22 mg/l	Algae	96 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	DIN 38412-09
Docusate sodium	EC0	400 mg/l	Bacteria	16 h		

577-11-7					
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Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
2-(2-Butoxyethoxy)ethyl acetate 124-17-4		aerobic	> 90 %	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
	readily biodegradable	aerobic	100 %	EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test)
Acetic acid ethenyl ester, polymer with ethenol 25213-24-5			90 %	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
Alcohols, C12-14, ethoxylated 68439-50-9	readily biodegradable	aerobic	78 - 79 %	EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test)
Docosate sodium 577-11-7	readily biodegradable	aerobic	68 %	EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test)

Bioaccumulative potential:

No data available.

Mobility in soil:

Hazardous components CAS-No.	LogKow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
2-(2-Butoxyethoxy)ethyl acetate 124-17-4	1,3					

Other adverse effects:

No data available.

13. DISPOSAL CONSIDERATIONS

Product disposal:

Dispose of in accordance to the following applicable Chilean regulation: Decree No. 1, Supreme Decree No. 594, Supreme Decree No. 609 and Resolution No. 5081 of Ministry of Health or other applicable when it is disposed.

Disposal of uncleaned packages:

Dispose of in accordance to the following applicable Chilean regulation: Decree No. 1, Supreme Decree No. 594, Supreme Decree No. 609 and Resolution No. 5081 of Ministry of Health or other applicable when it is disposed.

14. TRANSPORT INFORMATION

General information:

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

15. REGULATORY INFORMATION

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

CHILEAN OFFICIAL REGULATION: Ch382.Of 2013 - Sustancias peligrosas - Terminología y clasificación general (equivalente a la norma DOT)

CHILEAN OFFICIAL REGULATION: NCh1411/4 of 1978 - Prevención de riesgos - Parte 4: Identificación de riesgos de materiales (equivalente a la norma NFPA 704)

CHILEAN OFFICIAL REGULATION: NCh 2190 of 2003 - Transporte de sustancias peligrosas - Distintivos para identificación de riesgos

CHILEAN OFFICIAL REGULATION: Norma Chilena N° 2245/03, Sustancias Química - Hoja de Datos de Seguridad - Requisitos.

CHILEAN OFFICIAL REGULATION: Decreto Supremo N° 148/03, Reglamento sanitario sobre manejo de residuos peligrosos.

CHILEAN OFFICIAL REGULATION: Decreto Supremo N° 298/94, Reglamenta transporte de cargas peligrosas por calles y caminos.

CHILEAN OFFICIAL REGULATION: Decreto Supremo N° 78/10, Reglamento de almacenamiento de sustancias peligrosas.

Chile. Prohibited Substances. Decree No. 594, art. 65: Regulating Basic Health and Environmental Conditions in the Workplace

16. OTHER INFORMATION

Abbreviations:

ADNR: Regulations for the Carriage of Dangerous Goods on the Rhine.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

BCF - Bioconcentration Factor

BEI - Biological Exposure Indices

CAS: Chemical Abstracts Service

IARC - International Agency for Research on Cancer

IATA-DGR: International Air Transport Association – Dangerous Goods Regulations

IMDG: International Maritime Dangerous Goods code

LC 50: Lethal Concentration 50%

LD 50: Lethal Dose 50%

OECD: Organization for Economic Cooperation and Development

RID: International Rule for Transport of Dangerous Substances by Railway

STEL - Short term exposure limit

TLV - Threshold Limit Value

TWA - Time weighted average

Further information:

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.