

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture  
Trade name : ARALDITE EXTRAFUERTE HARDENER  
UFI : H0QA-D3UE-DW14-NUAV  
Product code : 510104, 510106, 510107, 510108  
Type of product : adhesives

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### Relevant identified uses

Intended for general public  
Main use category : Consumer use  
Use of the substance/mixture : Epoxy Adhesive (Hardener)

#### 1.3. Details of the supplier of the safety data sheet

##### Distributor

AC Marca Adhesives, S.A.  
Avda. Carrilet, L'Hospitalet de Llobregat 293-297  
08907 Barcelona (Spain)  
T +34 93 260 68 00, F +34 93 260 68 98  
[reach@grupoacmarca.com](mailto:reach@grupoacmarca.com)

##### Distributor

AC Marca Chile, Ltda.  
Román Díaz 205, oficina 604, Providencia  
Providencia., Santiago  
Chile  
T 22 235 5517 – 22 236 0748, F 235 53 84  
[infocl@acmarca.com](mailto:infocl@acmarca.com)

##### Distributor

Ceys Mexicana, S.A de C.V.  
Blvd. Toluca 49-51, Colonia San Andrés Atoto Naucalpan de Juárez, Edo  
de Mex. C.P. 53500 RFC: CME 961115 NRA  
MEXICO  
T 01 800 88 88 362 (lada sin costo)  
[infomx@acmarca.com](mailto:infomx@acmarca.com)

#### 1.4. Emergency telephone number

Country/Area	Organisation/Company	Address	Emergency number	Comment
Spain	Servicio de Información Toxicológica Instituto Nacional de Toxicología y Ciencias Forenses, Departamento de Madrid	C/José Echegaray nº4 28232 Las Rozas de Madrid	+34 91 562 04 20 +34 91 411 26 76 (teléfono solo para médicos)	(Toxicological emergencies only). Information in Spanish (24/7)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation Not classified  
Serious eye damage/eye irritation, Category 1 H318  
Skin sensitisation, Category 1 H317  
Hazardous to the aquatic environment – Chronic Hazard, H411  
Category 2  
Full text of H- and EUH-statements: see section 16

##### Adverse physicochemical, human health and environmental effects

May cause an allergic skin reaction. Causes serious eye damage. Toxic to aquatic life with long lasting effects.

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### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS05

GHS07

GHS09

Signal word (CLP)

: Danger

Contains

: Mono Dimer Trimer FA TETA PAA; Fatty acids, C18-unsatd., dimers, polymers with oleic acid and triethylenetetramine; Amines, polyethylenepoly-, tetraethylenepentamine fraction; Amines, polyethylenepoly-, triethylenetetramine fraction

Hazard statements (CLP)

: H317 - May cause an allergic skin reaction.

H318 - Causes serious eye damage.

H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (CLP)

: P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P280 - Wear protective clothing/eye protection/face protection.

P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P301+P312 - IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.

P501 - Dispose of contents and container in a public collection point for hazardous or special waste if it is not entirely consumed.

Extra phrases

: Do not ingest.

Child-resistant fastening

: Not applicable

Tactile warning

: Not applicable

### 2.3. Other hazards

Contains no PBT and/or vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Mono Dimer Trimer FA TETA PAA	EC-No.: 701-120-2 REACH-no: 01-2119972322-40	50 – 70	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Chronic 2, H411
Fatty acids, C18-unsatd., dimers, polymers with oleic acid and triethylenetetramine	CAS-No.: 68154-62-1 EC-No.: 614-339-2	30 – 50	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412
Amines, polyethylenepoly-, tetraethylenepentamine fraction	CAS-No.: 90640-66-7 EC-No.: 292-587-7 REACH-no: 01-2119487290-37	5 – 10	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT RE Not classified Aquatic Chronic 2, H411

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Amines, polyethylenepoly-, triethylenetetramine fraction	CAS-No.: 90640-67-8 EC-No.: 292-588-2 REACH-no: 01-2119487919-13	0,25 – 1	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT RE Not classified Aquatic Chronic 3, H412

Full text of H- and EUH-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general	: If you feel unwell, seek medical advice.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation	: Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.
Symptoms/effects after skin contact	: May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: None under normal conditions.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: Do not use a heavy water stream.

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

Fire hazard	: No fire hazard.
Explosion hazard	: No direct explosion hazard.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

### 5.3. Advice for firefighters

Firefighting instructions	: Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

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### SECTION 6: Accidental release measures

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

General measures : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters.  
Absorb spillage to prevent material damage.

##### For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.  
Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

##### For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".  
Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

#### 6.2. Environmental precautions

Avoid release to the environment.

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

For containment : Collect spillage. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.  
Methods for cleaning up : Take up liquid spill into absorbent material.  
Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.  
Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.  
Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Technical measures : Keep in a cool, well-ventilated place away from heat.  
Storage conditions : Keep cool. Protect from sunlight.  
Packaging materials : Store always product in container of same material as original container.

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Recommended monitoring procedures

##### Monitoring methods

Monitoring methods	Workplace exposure - General requirements for the performance of procedures for the measurement of chemical agents.
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### 8.2. Exposure controls

#### Appropriate engineering controls

##### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### Personal protection equipment

##### Personal protective equipment:

Personal protective equipment (PPE) must be suited to the nature of the work and any hazard associated with the work as identified by the risk assessment conducted.

Avoid all unnecessary exposure. Wear recommended personal protective equipment. Ocular shower with suitable liquid.

##### Personal protective equipment symbol(s):



#### Eye and face protection

##### Eye protection:

Wear eye protection: Chemical goggles or safety glasses

#### Skin protection

##### Skin and body protection:

Wear protective clothing: Long sleeved protective clothing

##### Hand protection:

Wear protective gloves

#### Respiratory protection

##### Respiratory protection:

If mist is formed : Disposable half mask

#### Environmental exposure controls

##### Environmental exposure controls:

Avoid release to the environment.

##### Consumer exposure controls:

Personal protective equipment (PPE) is not required when handling individual retail pack.

##### Other information:

PPE compliant with the recommended standards should be selected.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: light yellow.
Appearance	: Liquid.
Odour	: Not available
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Non flammable.
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: 150 °C
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: 11
pH solution	: 500 g/l
Viscosity, kinematic	: Not available
Viscosity, dynamic	: 25000 – 30000 mPa·s

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Solubility	: insoluble in water.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: 0,04 hPa
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

ARALDITE EXTRAFUERTE HARDENER	
LD50 oral	> 2000 mg/kg
Fatty acids, C18-unsatd., dimers, polymers with oleic acid and triethylenetetramine (68154-62-1)	
LD50 oral rat	> 2000 mg/kg Source: ECHA Chem
LD50 dermal rat	> 2000 mg/kg Source: ECHA Chem
Amines, polyethylenepoly-, tetraethylenepentamine fraction (90640-66-7)	
LD50 oral rat	1591,4 mg/kg
LD50 dermal rabbit	1465,4 mg/kg Source: ECHA Chem

Skin corrosion/irritation	: Not classified. pH: 11
Serious eye damage/irritation	: Causes serious eye damage. pH: 11
Respiratory or skin sensitisation	: May cause an allergic skin reaction.

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Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

### Amines, polyethylenepoly-, triethylenetetramine fraction (90640-67-8)

NOAEL (chronic, oral, animal/male, 2 years)	≥ 42 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 451 (Carcinogenicity Studies), Remarks on results: other:Effect type: toxicity (migrated information)
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Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

### Amines, polyethylenepoly-, tetraethylenepentamine fraction (90640-66-7)

LOAEL (oral, rat, 90 days)	50 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
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### Amines, polyethylenepoly-, triethylenetetramine fraction (90640-67-8)

LOAEL (oral, rat, 90 days)	50 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
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NOAEL (oral, rat, 90 days)	50 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
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Aspiration hazard : Not classified

## 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Toxic to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term : Not classified

(acute)

Hazardous to the aquatic environment, long-term : Toxic to aquatic life with long lasting effects.

(chronic)

#### Mono Dimer Trimer FA TETA PAA

LC50 - Fish [1]	7,07 mg/l (OECD 203 method)
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EC50 - Crustacea [1]	5,18 mg/l (OECD 202 method)
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EC50 72h - Algae [1]	2,43 mg/l (OECD 201 method)
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#### Fatty acids, C18-unsatd., dimers, polymers with oleic acid and triethylenetetramine (68154-62-1)

LC50 - Fish [1]	7,07 mg/l Source: ECHA Chem
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EC50 - Crustacea [1]	5,18 mg/l Source: ECHA Chem
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EC50 72h - Algae [1]	2,43 mg/l Source: ECHA Chem
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#### Amines, polyethylenepoly-, tetraethylenepentamine fraction (90640-66-7)

LC50 - Fish [1]	0,42 g/l Test organisms (species): Poecilia reticulata
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EC50 - Crustacea [1]	24,1 mg/l Test organisms (species): Daphnia magna
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EC50 72h - Algae [1]	6,8 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
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EC50 72h - Algae [2]	2,1 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
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Amines, polyethylenepoly-, triethylenetetramine fraction (90640-67-8)	
LC50 - Fish [1]	330 mg/l Test organisms (species): Pimephales promelas
EC50 - Crustacea [1]	31,1 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	20 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

### 12.2. Persistence and degradability

ARALDITE EXTRAFUERTE HARDENER	
Persistence and degradability	Rapidly degradable
Mono Dimer Trimer FA TETA PAA	
Persistence and degradability	Rapidly degradable
Fatty acids, C18-unsatd., dimers, polymers with oleic acid and triethylenetetramine (68154-62-1)	
Persistence and degradability	Rapidly degradable
Amines, polyethylenepoly-, tetraethylenepentamine fraction (90640-66-7)	
Persistence and degradability	Not rapidly degradable
Amines, polyethylenepoly-, triethylenetetramine fraction (90640-67-8)	
Persistence and degradability	Not rapidly degradable

### 12.3. Bioaccumulative potential

Fatty acids, C18-unsatd., dimers, polymers with oleic acid and triethylenetetramine (68154-62-1)	
Partition coefficient n-octanol/water (Log Pow)	12,31 Source: ECHA Chem
Amines, polyethylenepoly-, tetraethylenepentamine fraction (90640-66-7)	
Partition coefficient n-octanol/water (Log Pow)	-2,6
Amines, polyethylenepoly-, triethylenetetramine fraction (90640-67-8)	
Partition coefficient n-octanol/water (Log Pow)	-2,65 (OECD 117 method)

### 12.4. Mobility in soil

Amines, polyethylenepoly-, tetraethylenepentamine fraction (90640-66-7)	
Mobility in soil	501187233627273 Source: ECHA Chem

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional waste regulation : Disposal must be done according to official regulations.  
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

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Sewage disposal recommendations : Disposal must be done according to official regulations.  
Product/Packaging disposal recommendations : Disposal must be done according to official regulations.  
Additional information : Do not re-use empty containers.

### SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number or ID number</b>				
UN 3082	UN 3082	UN 3082	UN 3082	UN 3082
<b>14.2. UN proper shipping name</b>				
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Mono Dimer Trimer FA TETA PAA ; Amines, polyethylenepoly-, tetraethylenepentamine fraction)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine)	Environmentally hazardous substance, liquid, n.o.s. (N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine)
<b>Transport document description</b>				
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Mono Dimer Trimer FA TETA PAA ; Amines, polyethylenepoly-, tetraethylenepentamine fraction), 9, III, (-)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine), 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine), 9, III
<b>14.3. Transport hazard class(es)</b>				
9	9	9	9	9
				
<b>14.4. Packing group</b>				
III	III	III	III	III
<b>14.5. Environmental hazards</b>				
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes EmS-No. (Fire): F-A EmS-No. (Spillage): S-F	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes
No supplementary information available				

### 14.6. Special precautions for user

#### Overland transport

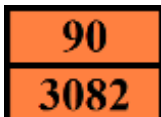
Classification code (ADR) : M6  
Special provisions (ADR) : 274, 335, 375, 601  
Limited quantities (ADR) : 5I  
Excepted quantities (ADR) : E1  
Packing instructions (ADR) : P001, IBC03, LP01, R001

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Special packing provisions (ADR)	: PP1
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T4
Portable tank and bulk container special provisions (ADR)	: TP1, TP29
Tank code (ADR)	: LGBV
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V12
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13
Hazard identification number (Kemler No.)	: 90
Orange plates	:



Tunnel restriction code (ADR) : -

### Transport by sea

Special provisions (IMDG)	: 274, 335, 969
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: LP01, P001
Special packing provisions (IMDG)	: PP1
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1, TP29
Stowage category (IMDG)	: A

### Air transport

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y964
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 964
PCA max net quantity (IATA)	: 450L
CAO packing instructions (IATA)	: 964
CAO max net quantity (IATA)	: 450L
Special provisions (IATA)	: A97, A158, A197, A215
ERG code (IATA)	: 9L

### Inland waterway transport

No data available

### Rail transport

No data available

## 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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### SECTION 15: Regulatory information

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

##### EU-Regulations

##### REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)	
Reference code	Applicable on
3(b)	ARALDITE EXTRAFUERTE HARDENER ; Mono Dimer Trimer FA TETA PAA ; Fatty acids, C18-unsatd., dimers, polymers with oleic acid and triethylenetetramine ; Amines, polyethylenepoly-, tetraethylenepentamine fraction ; Amines, polyethylenepoly-, triethylenetetramine fraction
3(c)	ARALDITE EXTRAFUERTE HARDENER ; Mono Dimer Trimer FA TETA PAA ; Fatty acids, C18-unsatd., dimers, polymers with oleic acid and triethylenetetramine ; Amines, polyethylenepoly-, tetraethylenepentamine fraction ; Amines, polyethylenepoly-, triethylenetetramine fraction

##### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

##### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

##### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

##### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

##### Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

##### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

##### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

### SECTION 16: Other information

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)

# ARALDITE EXTRAFUERTE HARDENER

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Abbreviations and acronyms:	
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disruptor

Full text of H- and EUH-statements:	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.

# ARALDITE EXTRAFUERTE HARDENER

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Full text of H- and EUH-statements:	
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1A	Skin sensitisation, category 1A
STOT RE Not classified	Specific target organ toxicity (repeated exposure) Not classified

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Skin Corr./Irrit. Not classified		Expert judgement
Eye Dam. 1	H318	Expert judgement
Skin Sens. 1	H317	Calculation method
Aquatic Chronic 2	H411	Calculation method

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.