

## SAFETY DATA SHEET

# RESION Polyaspartic Transparent Base

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

### 1.1. Product identifier

#### ▼ Trade name

RESION Polyaspartic Transparent Base

#### Product no.

FS601

#### Unique formula identifier (UFI)

EEF0-TOAA-800U-THNG

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

#### Relevant identified uses of the substance or mixture

Binder

#### Product code (A.I.S.E.)

AISE-P1009 / Coating product (Paint, Filler, Putty, Thinner). Manual process.

#### Use descriptors (REACH)

Sectors of use	Description
SU 12	Manufacture of plastics products, including compounding and conversion
SU 19	Building and construction work
Product category	Description
PC 9a	Coatings and Paints, Fillers, Putties, Thinners
Process category	Description
PROC 19	Hand-mixing with intimate contact and only PPE available
PROC 10	Roller application or brushing
Article category	Description
AC 13	Plastic articles
Environmental release category	Description
ERC 8f	Wide dispersive outdoor use resulting in inclusion into or onto a matrix

#### EuPCS

PC-ADH-2 / Adhesives and sealants - building and construction works (except cement based adhesives)

#### Uses advised against

None known.

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

#### Company and address

**Polyestershoppen BV**  
Oostbaan 680  
2841 ML Moordrecht  
Netherlands  
+31 85 0220090

#### Contact person

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#### E-mail

info@polyestershoppen.nl

#### Revision

05/04/2024

#### SDS Version

2.0

#### Date of previous version

12/03/2024 (1.0)

#### 1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service).  
See section 4 "First aid measures".

## SECTION 2: Hazards identification

Classified according to Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

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

Skin Sens. 1; H317, May cause an allergic skin reaction.

Aquatic Chronic 3; H412, Harmful to aquatic life with long lasting effects.

#### 2.2. Label elements

##### Hazard pictogram(s)



##### Signal word

Warning

##### Hazard statement(s)

May cause an allergic skin reaction. (H317)

Harmful to aquatic life with long lasting effects. (H412)

##### Precautionary statement(s)

###### General

If medical advice is needed, have product container or label at hand. (P101)

Keep out of reach of children. (P102)

###### Prevention

Avoid breathing mist/vapour. (P261)

Wear eye protection/protective gloves/protective clothing. (P280)

###### Response

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

If skin irritation or rash occurs: Get medical advice/attention. (P333+P313)

Take off contaminated clothing and wash it before reuse. (P362+P364)

###### Storage

-

###### Disposal

Dispose of contents/container in accordance with local regulation  
(P501)

#### ▼ Hazardous substances

tetraethyl N,N'-(methylenedicyclohexane-4,1-diyl)bis-<span style="font-variant:small-caps">dl-aspartate

#### Additional labelling

UFI: EEFO-T0AA-800U-THNG

#### 2.3. Other hazards

##### Additional warnings

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

This product does not contain any substances considered to be endocrine disruptors in accordance with the

criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable. This product is a mixture.

#### 3.2. ▼ Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
tetraethyl N,N'-(methylenedicyclohexane-4,1-diyl)bis-<span style="font-variant:small-caps">dl-aspartate	CAS No.: 136210-30-5 EC No.: 429-270-1 UK-REACH: Index No.: 607-521-00-8	80-95%	Skin Sens. 1, H317 Aquatic Chronic 3, H412	
Diethyl fumarate	CAS No.: 623-91-6 EC No.: 210-819-7 UK-REACH: Index No.:	1-3%	Acute Tox. 4, H302	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

#### Other information

-

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

##### Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

##### Skin contact

IF ON SKIN: Wash with plenty of water and soap. Remove contaminated clothing and shoes. Ensure to wash exposed skin thoroughly with water and soap. DO NOT use solvents or thinners. If skin irritation occurs: Get medical advice/attention.

##### Eye contact

If in eyes: Flush eyes with water or saline water (20-30 °C) for at least 5 minutes. Remove contact lenses. Seek medical assistance and continue flushing during transport.

##### Ingestion

If the person is conscious, rinse the mouth with water and stay with the person. Never give the person anything to drink. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material.

##### Burns

Not applicable.

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

Sensitisation: This product contains substances, which may trigger allergic reaction upon dermal contact.

Manifestation of allergic reactions typically takes place within 12-72 hours after exposure.

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

If skin irritation or rash occurs: Get medical advice/attention.

#### Information to medics

Bring this safety data sheet or the label from this product.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

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

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Nitrogen oxides (NO<sub>x</sub>)

Carbon oxides (CO / CO<sub>2</sub>)

#### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

### SECTION 6: Accidental release measures

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

Avoid direct contact with spilled substances.

Contaminated areas may be slippery.

#### 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

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

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

#### 6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

It is recommended to install waste collection trays in order to prevent emissions to the waste water system and surrounding environment.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

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

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

##### Recommended storage material

Keep only in original packaging.

##### Storage temperature

Dry, cool and well ventilated

##### Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

### 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No substances are listed in the national list of substances with an occupational exposure limit.

#### ▼ DNEL

tetraethyl N,N'-(methylenedicyclohexane-4,1-diyl)bis-dl-aspartate

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	1.4 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	4 mg/kg bw/day
Short term – Systemic effects - General population	Dermal	1.4 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	4.8 mg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	28 mg/m <sup>3</sup>
Short term – Systemic effects - General population	Inhalation	4.8 mg/m <sup>3</sup>
Short term – Systemic effects - Workers	Inhalation	112 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Oral	1.4 mg/kg bw/day
Short term – Systemic effects - General population	Oral	1.4 mg/kg bw/day

#### ▼ PNEC

tetraethyl N,N'-(methylenedicyclohexane-4,1-diyl)bis-dl-aspartate

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		130 ng/L
Freshwater sediment		210 µg/kg
Marine water		13 ng/L
Marine water sediment		20 µg/kg
Sewage treatment plant		31.1 mg/L
Soil		100 µg/kg

### 8.2. Exposure controls

Apply general control to prevent unnecessary exposure

#### General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

#### Exposure scenarios

There are no exposure scenarios implemented for this product.

#### Exposure limits

Occupational exposure limits have not been defined for the substances in this product.

#### Appropriate technical measures

Apply standard precautions during use of the product. Avoid inhalation of vapours.

#### Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

#### Measures to avoid environmental exposure


Keep damming materials near the workplace. If possible, collect spillage during work.

### Individual protection measures, such as personal protective equipment


#### Generally

Use only UKCA marked protective equipment.


#### Respiratory Equipment

Work situation	Type	Class	Colour	Standards	
In case of inadequate ventilation	A	Class 2 (medium capacity)	Brown	EN14387	


### Skin protection

Recommended	Type/Category	Standards	
Dedicated work clothing should be worn. Wear a protective suit in the event of prolonged periods of work with the product.	-	-	

### Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Nitrile	0.4	> 480	EN374-2, EN374-3, EN388	

### Eye protection

Type	Standards	
Safety glasses with side shields.	EN166	

## SECTION 9: Physical and chemical properties

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

#### Physical state

Liquid

#### ▼ Colour

Colourless

#### Odour / Odour threshold

Faint

#### pH

Testing not relevant or not possible due to the nature of the product.

#### ▼ Density (g/cm<sup>3</sup>)

1.09

#### Kinematic viscosity

Testing not relevant or not possible due to the nature of the product.

#### ▼ Dynamic viscosity

400-450 mPa.s

#### Particle characteristics

Does not apply to liquids.

### Phase changes

#### Melting point/Freezing point (°C)

Testing not relevant or not possible due to the nature of the product.

#### Softening point/range (waxes and pastes) (°C)

Does not apply to liquids.

### ▼ Boiling point (°C)

>200

### Vapour pressure

Testing not relevant or not possible due to the nature of the product.

### Relative vapour density

Testing not relevant or not possible due to the nature of the product.

### Decomposition temperature (°C)

Testing not relevant or not possible due to the nature of the product.

## Data on fire and explosion hazards

### Flash point (°C)

Testing not relevant or not possible due to the nature of the product.

### Flammability (°C)

Testing not relevant or not possible due to the nature of the product.

### Auto-ignition temperature (°C)

Testing not relevant or not possible due to the nature of the product.

### Lower and upper explosion limit (% v/v)

Testing not relevant or not possible due to the nature of the product.

## Solubility

### ▼ Solubility in water

Insoluble

### n-octanol/water coefficient (LogKow)

Testing not relevant or not possible due to the nature of the product.

### Solubility in fat (g/L)

Testing not relevant or not possible due to the nature of the product.

## 9.2. Other information

### Other physical and chemical parameters

No data available.

### Oxidizing properties

Testing not relevant or not possible due to the nature of the product.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

### 10.3. Possibility of hazardous reactions

None known.

### 10.4. Conditions to avoid

None known.

### 10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

### 10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

## SECTION 11: Toxicological information

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

#### ▼ Acute toxicity

Product/substance	tetraethyl N,N'-(methylenedicyclohexane-4,1-diyl)bis-<span style="font-variant:small-caps">dl-aspartate
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Species: Rat  
Route of exposure: Oral  
Test: LD50  
Result: >2000 mg/kg

Product/substance tetraethyl N,N'-(methylenedicyclohexane-4,1-diyl)bis-dl-aspartate  
Species: Rat  
Route of exposure: Dermal  
Test: LD50  
Result: >2000 mg/kg

Product/substance tetraethyl N,N'-(methylenedicyclohexane-4,1-diyl)bis-dl-aspartate  
Test method: OECD 403  
Species: Rat  
Route of exposure: Inhalation  
Test: LC50  
Result: >4224 mg/m<sup>3</sup>

### Skin corrosion/irritation

Based on available data, the classification criteria are not met.

### Serious eye damage/irritation

Based on available data, the classification criteria are not met.

### Respiratory sensitisation

Based on available data, the classification criteria are not met.

### Skin sensitisation

May cause an allergic skin reaction.

### Germ cell mutagenicity

Based on available data, the classification criteria are not met.

### Carcinogenicity

Based on available data, the classification criteria are not met.

### Reproductive toxicity

Based on available data, the classification criteria are not met.

### STOT-single exposure

Based on available data, the classification criteria are not met.

### STOT-repeated exposure

Based on available data, the classification criteria are not met.

### Aspiration hazard

Based on available data, the classification criteria are not met.

## 11.2. Information on other hazards

### Long term effects

None known.

### Endocrine disrupting properties

This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

### Other information

None known.

## SECTION 12: Ecological information

### 12.1. ▼ Toxicity

Product/substance tetraethyl N,N'-(methylenedicyclohexane-4,1-diyl)bis-dl-aspartate  
Test method: OECD 203  
Species: Fish, Brachydanio rerio



Test: LC50  
Result: 66 mg/L

Product/substance: tetraethyl N,N'-(methylenedicyclohexane-4,1-diyl)bis-dl-aspartate  
Species: Crustacean  
Test: EC50  
Result: 88,6 mg/L

Product/substance: tetraethyl N,N'-(methylenedicyclohexane-4,1-diyl)bis-dl-aspartate  
Test method: OECD 201  
Species: Algae  
Duration: 72 hours  
Test: EC50  
Result: 1319 mg/L

Harmful to aquatic life with long lasting effects.

### 12.2. Persistence and degradability

Based on available data, the classification criteria are not met.

### 12.3. Bioaccumulative potential

Based on available data, the classification criteria are not met.

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

### 12.6. Endocrine disrupting properties

This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

### 12.7. Other adverse effects

This product contains substances, which may cause adverse long-term effects to the aquatic environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste. (\*)

HP 13 – Sensitising

HP 14 – Ecotoxic

Dispose of contents/container to an approved waste disposal plant.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

#### EWC code

08 01 11\* Waste paint and varnish containing organic solvents or other dangerous substances

### Contaminated packing

#### EWC code

08 01 11\* Waste paint and varnish containing organic solvents or other dangerous substances

## SECTION 14: Transport information

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
ADR	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	-	-	-	-	-	-

\* Packing group

### \*\* Environmental hazards

#### Additional information

Not dangerous goods according to ADR, IATA and IMDG.

#### 14.6. Special precautions for user

Not applicable.

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

No data available.

## SECTION 15: Regulatory information

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

#### Restrictions for application

People under the age of 18 shall not be exposed to this product.

#### Demands for specific education

No specific requirements.

#### SEVESO - Categories / dangerous substances

Not applicable.

#### Additional information

Not applicable.

#### Sources

The Management of Health and Safety at Work Regulations 1999.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as retained and amended in UK law.

Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law.

### 15.2. Chemical safety assessment

No

## SECTION 16: Other information

### ▼ Full text of H-phrases as mentioned in section 3

H302, Harmful if swallowed.

H317, May cause an allergic skin reaction.

H412, Harmful to aquatic life with long lasting effects.

### The full text of identified uses as mentioned in section 1

SU 12 = Manufacture of plastics products, including compounding and conversion

SU 19 = Building and construction work

PROC 19 = Hand-mixing with intimate contact and only PPE available

PROC 10 = Roller application or brushing

PC 9a = Coatings and Paints, Fillers, Putties, Thinners

AC 13 = Plastic articles

ERC 8f = Wide dispersive outdoor use resulting in inclusion into or onto a matrix

### Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CE = Conformité Européenne (European conformity)

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CSA = Chemical Safety Assessment

CSR = Chemical Safety Report

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EINECS = European Inventory of Existing Commercial chemical Substances  
ES = Exposure Scenario  
EUH statement = CLP-specific Hazard statement  
EuPCS = European Product Categorisation System  
EWC = European Waste Catalogue  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IARC = International Agency for Research on Cancer (IARC)  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient  
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
OECD = Organisation for Economic Co-operation and Development  
PBT = Persistent, Bioaccumulative and Toxic  
PNEC = Predicted No Effect Concentration  
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
RRN = REACH Registration Number  
SCL = A specific concentration limit  
SVHC = Substances of Very High Concern  
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure  
STOT-SE = Specific Target Organ Toxicity - Single Exposure  
TWA = Time weighted average  
UN = United Nations  
UVBC = Unknown or variable composition, complex reaction products or of biological materials  
VOC = Volatile Organic Compound  
vPvB = Very Persistent and Very Bioaccumulative

#### Additional information

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

The classification of the substance/mixture in regard of environmental hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

#### ▼ The safety data sheet is validated by

H.A.B.

#### ▼ Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: GB-en