

SAFETY DATA SHEET

PVC Polycarb EasyFix – thin



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

1.1. Product identifier

Product Name: **PVC Polycarb EasyFix - thin**
REACH registration No.: Not available

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

1.2.1. Relevant identified uses

Main use category: Industrial use
Main use: Bonding plastics
Use of the substance/mixture: Corrosion inhibitor
Use of the substance/mixture: Solvents
Uses in Coatings
Laboratory chemicals

1.2.2. Uses advised against

No additional information available

1.3 Details of the supplier of the safety data sheet

Supplier

Company Name: Alternative Plastics Ltd
Unit 1, Buckingham Close
Bermuda Industrial Estate
Nuneaton
Warwickshire
CV10 7JT
UK

Tel: +44 (0)2476 641210
Email: sales@alternativeplastics.co.uk

1.4. Emergency telephone number

Emergency number : +44 (0)2476 641210 (Office hours only)

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
United Kingdom	NHS 111/NHS 24/NHS Direct		111 0845 4647	or call a doctor

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Contains: Tetrahydrofuran

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

Flammable liquids, Category 2 **H225**

Acute toxicity (oral), Category 4 **H302**

Serious eye damage/eye irritation, Category 2 **H319**

Carcinogenicity, Category 2 **H351**

Specific target organ toxicity – Single exposure, Category 3, **H335**
Respiratory tract irritation

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

Specific concentration limits:

(25 ≤ C ≤ 100) STOT SE 3, **H335**

(25 ≤ C ≤ 100) Eye Irrit. 2, **H319**

Adverse physicochemical, human health and environmental effects

Extremely flammable liquid and vapour. Causes skin irritation. Causes serious eye irritation.

2.2. Label elements

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

Hazard pictograms (CLP):



GHS02



GHS07



GHS08

Signal word (CLP): Danger

Hazard statements (CLP): **H225** - Highly flammable liquid and vapour.
H302 - Harmful if swallowed.
H319 - Causes serious eye irritation.
H335 - May cause respiratory irritation.
H351 - Suspected of causing cancer.

Precautionary statements (CLP): **P201** - Obtain special instructions before use.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 - Keep container tightly closed.
P261 - Avoid breathing dust, fume, gas, mist, spray, vapours.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P370+P378 - In case of fire: Use alcohol resistant foam to extinguish.

EUH-statements: **EUH019** - May form explosive peroxides.

2.3. Other hazards

No additional information available

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SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Tetrahydrofuran Synonyms: THF	CAS-No.: 109-99-9 EC-No.: 203-726-8 EC Index-No.: 603-025-00-0 REACH-no: 01-2119444314-46	>98	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 (ATE=1650 mg/kg bodyweight) Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H335 EUH019

Specific concentration limits:

Name	Product identifier	Specific concentration limits
Tetrahydrofuran	CAS-No.: 109-99-9 EC-No.: 203-726-8 EC Index-No.: 603-025-00-0 REACH-no: 01-2119444314-46	(25 ≤ C ≤ 100) STOT SE 3, H335 (25 ≤ C ≤ 100) Eye Irrit. 2, H319

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

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation:	Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact:	Rinse skin with water/shower. Take off immediately all contaminated clothing. If skin irritation 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. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion:	Do NOT induce vomiting. Get medical advice/attention if you feel unwell.

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

Symptoms/effects:	May cause drowsiness or dizziness.
Symptoms/effects after eye contact:	Redness, itching, tears. stinging.
Chronic symptoms:	Suspected carcinogen.

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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: The vapours are denser than air and may travel along the ground. Distance ignition possible.
Explosion hazard: May form explosive peroxides.

5.3. Advice for firefighters

Precautionary measures fire: Evacuate area.
Protection during firefighting: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures: Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Stop leak if safe to do so.

6.1.1. For non-emergency personnel

Emergency procedures: Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes.

6.1.2. 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".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment: Cover spill with non combustible material, e.g.: sand, earth, vermiculite.
Methods for cleaning up: Take up liquid spill into absorbent material. Absorb remaining liquid with sand or inert absorbent and remove to safe place. Notify authorities if product enters sewers or public waters.
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.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling:	Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Avoid contact with skin and eyes.
Hygiene measures:	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:	Ground/bond container and receiving equipment.
Storage conditions:	Store in a well-ventilated place. Keep cool. Keep container tightly closed.
Storage area:	Store away from heat.
Special rules on packaging:	Keep only in original container.
Packaging materials:	Keep only in the original container in a cool, well-ventilated place away from combustible materials.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Tetrahydrofuran (109-99-9)	
United Kingdom - Occupational Exposure Limits	
Local name	Tetrahydrofuran
WEL TWA (OEL TWA) [1]	150 mg/m ³
WEL TWA (OEL TWA) [2]	50 ppm
WEL STEL (OEL STEL)	300 mg/m ³
WEL STEL (OEL STEL) [ppm]	100 ppm
Remark	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

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Tetrahydrofuran (109-99-9)	
DNEL/DMEL (Workers)	
Acute - systemic effects, inhalation	96 mg/m ³
Acute - local effects, inhalation	300 mg/m ³
Long-term - systemic effects, dermal	12.6 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	72.4 mg/m ³
Long-term - local effects, inhalation	150 mg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, inhalation	52 mg/m ³
Acute - local effects, inhalation	150 mg/m ³
Long-term - systemic effects, oral	1.5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	13 mg/m ³
Long-term - systemic effects, dermal	1.5 mg/kg bodyweight/day
Long-term - local effects, inhalation	75 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	4.32 mg/l
PNEC aqua (marine water)	0.432 mg/l
PNEC aqua (intermittent, freshwater)	21.6 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	23.3 mg/kg dwt
PNEC sediment (marine water)	2.33 mg/kg dwt
PNEC (Soil)	
PNEC soil	2.13 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	67 mg/kg food
PNEC (STP)	
PNEC sewage treatment plant	4.6 mg/l

8.1.5. Control banding

No additional information available

8.2. Exposure Controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls: Ensure good ventilation of the work station.

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8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection: Safety glasses

Eye protection			
Type	Field of application	Characteristics	Standard
Safety glasses, Safety goggles	Droplet	With side shields	EN 166

8.2.2.2. Skin protection

Skin and body protection: Wear suitable protective clothing

Hand protection: Protective gloves

Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR), Butyl rubber, Polyvinylchloride (PVC)	5 (> 240 minutes)	0.44		EN 374-2

8.2.2.3. Respiratory protection

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment

Respiratory protection			
Device	Filter type	Condition	Standard
Aerosol mask	ABEK	Vapour protection, Protection for Liquid particles	EN 14387

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls: Avoid release to the environment.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	Colourless.
Odour:	characteristic.
Odour threshold:	Not available
Melting point:	-108 °C Atm. press.: 1013 hPa
Freezing point:	Not available
Boiling point:	64 °C Atm. press.: 1013 hPa
Flammability:	Not applicable
Explosive limits:	Not available
Lower explosion limit:	Not available
Upper explosion limit:	Not available
Flash point:	-20 °C Atm. press.: 1013 hPa
Auto-ignition temperature:	215 °C
Decomposition temperature:	Not available
pH:	7 – 8 Temp.: 20 °C Concentration: 200 g/L
Viscosity, kinematic:	0.539 mm ² /s
Viscosity, dynamic:	0.48 mPa.s Temp.: '20°C' Parameter: 'dynamic viscosity (in mPa s)'
Solubility:	Soluble in water.
Partition coefficient n-octanol/water (Log Kow):	Not available
Vapour pressure:	17 kPa Temp.: 20 °C
Vapour pressure at 50°C:	Not available
Density:	0.89 g/cm ³ Type: 'bulk density' Temp.: 20 °C
Relative density:	0.886 25°C
Relative vapour density at 20°C:	Not available
Particle characteristics:	Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

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

May form explosive peroxides.

10.3. Possibility of hazardous reactions

Liquids/vapours may ignite or react with other materials.

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10.4. Conditions to avoid

Air contact. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5. Incompatible materials

Oxidizing agent. Strong bases.

10.6. Hazardous decomposition products

Carbon monoxide.

SECTION 11: Toxicological information

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

Acute toxicity (oral): Harmful if swallowed.

Acute toxicity (dermal): Not classified

Acute toxicity (inhalation): Not classified

Tetrahydrofuran (109-99-9)

LD50 oral rat 1650 mg/kg

LD50 dermal rat > 2000 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: other:, Guideline: EPA OPPTS 870.1200 (Acute Dermal Toxicity), Guideline: other:

LC50 Inhalation - Rat [ppm] > 5000 ppm Animal: rat, Guideline: other:, Remarks on results: other:

Skin corrosion/irritation: Not classified

pH: 7 – 8 Temp.: 20 °C Concentration: 200 g/L

Serious eye damage/irritation: Causes serious eye irritation.

pH: 7 – 8 Temp.: 20 °C Concentration: 200 g/L

Respiratory or skin sensitisation: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Suspected of causing cancer.

Reproductive toxicity: Not classified

STOT-single exposure: May cause respiratory irritation.

STOT-repeated exposure: Not classified

Aspiration hazard: Not classified

Tetrahydrofuran (109-99-9)

Viscosity, kinematic 0.539 mm²/s

11.2. Information on other hazards

No additional information available

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SECTION 12: Ecological information

12.1. Toxicity

Ecology - general: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

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

Hazardous to the aquatic environment, long-term (chronic): Not classified

Not rapidly degradable

Tetrahydrofuran (109-99-9)

LC50 - Fish [1]	2160 mg/l Test organisms (species): Pimephales promelas
EC50 - Crustacea [1]	3485 mg/l
EC50 96h - Algae [1]	3700 mg/l
NOEC chronic fish	216 mg/l Test organisms (species): Pimephales promelas Duration: '33 d'

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information

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

Waste treatment methods: Dispose of contents/container in accordance with licensed collector's sorting instructions.

Additional information: Flammable vapours may accumulate in the container.

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SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
UN 2056	UN 2056	UN 2056	UN 2056	UN 2056
14.2. UN proper shipping name				
TETRAHYDROFURAN	TETRAHYDROFURAN	Tetrahydrofuran	TETRAHYDROFURAN	TETRAHYDROFURAN
Transport document description				
UN 2056 TETRAHYDROFURAN, 3, II, (D/E)	UN 2056 TETRAHYDROFURAN, 3, II (< -18°C c.c.)	UN 2056 Tetrahydrofuran, 3, II	UN 2056 TETRAHYDROFURAN, 3, II	UN 2056 TETRAHYDROFURAN, 3, II
14.3. Transport hazard class(es)				
3	3	3	3	3
				
14.4. Packing group				
II	II	II	II	II
14.5. Environmental hazards				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available				

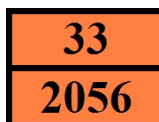
14.6. Special precautions for user

Overland transport

Classification code (ADR):	F1
Limited quantities (ADR):	1I
Excepted quantities (ADR):	E2
Packing instructions (ADR):	P001, IBC02, R001
Mixed packing provisions (ADR):	MP19
Portable tank and bulk container instructions (ADR) :	T4
Portable tank and bulk container special provisions (ADR):	TP1
Tank code (ADR):	LGBF
Vehicle for tank carriage:	FL
Transport category (ADR):	2
Special provisions for carriage - Operation (ADR):	S2, S20
Hazard identification number (Kemler No.):	33

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Orange plates:

Tunnel restriction code (ADR):

D/E

EAC code:

•2YE

Transport by sea

Limited quantities (IMDG):

1 L

Excepted quantities (IMDG):

E2

Packing instructions (IMDG):

P001

IBC packing instructions (IMDG):

IBC02

Tank instructions (IMDG):

T4

Tank special provisions (IMDG):

TP1

EmS-No. (Fire):

F-E

EmS-No. (Spillage):

S-D

Stowage category (IMDG):

B

Flash point (IMDG):

below -18°C c.c.

Properties and observations (IMDG):

Colourless liquid with an ethereal odour. Flashpoint: below -18°C c.c.

Explosive limits: 1.5% to 12% Miscible with water.

Air transport

PCA Excepted quantities (IATA):

E2

PCA Limited quantities (IATA):

Y341

PCA limited quantity max net quantity (IATA):

1L

PCA packing instructions (IATA):

353

PCA max net quantity (IATA):

5L

CAO packing instructions (IATA):

364

CAO max net quantity (IATA):

60L

ERG code (IATA):

3H

Inland waterway transport

Classification code (ADN):

F1

Limited quantities (ADN):

1 L

Excepted quantities (ADN):

E2

Carriage permitted (ADN):

T

Equipment required (ADN):

PP, EX, A

Ventilation (ADN):

VE01

Number of blue cones/lights (ADN):

1

Rail transport

Classification code (RID):

F1

Limited quantities (RID):

1L

Excepted quantities (RID):

E2

Packing instructions (RID):

P001, IBC02, R001

Mixed packing provisions (RID):

MP19

Portable tank and bulk container instructions (RID):

T4

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Portable tank and bulk container special provisions: TP1

(RID)

Tank codes for RID tanks (RID): LGBF

Transport category (RID): 2

Colis express (express parcels) (RID): CE7

Hazard identification number (RID): 33

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Not listed on REACH Annex XVII

REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Not listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Not listed on the PIC list (Regulation EU 649/2012)

POP Regulation (Persistent Organic Pollutants)

Not listed on the POP list (Regulation EU 2019/1021)

Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

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)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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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)
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 disrupting properties

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Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Carc. 2	Carcinogenicity, Category 2
EUH019	May form explosive peroxides.
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

The classification complies with: ATP 12 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.