

SAFETY DATA SHEET

VE140 Fuel Resistant Vinylester Resin

Date revised: 23.05.2025

Version: 4 / GB

Master No. M-401

Print date: 12.06.2025

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier****Trade name**

VE140 Fuel Resistant Vinylester Resin

UFI

KP3X-FJHA-R00M-6VEH

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

Purpose of use: Raw substance formulas for manufacturing shaped parts from unsaturated polyester / vinyl ester resins.

Uses advised against

SU21 Consumer uses: Private households (= general public = consumers)

1.3. Details of the supplier of the safety data sheet

Company name: Easy Composites Ltd
 Unit 39, Park Hall Business Village
 Longton, Stoke on Trent
 Staffordshire
 ST3 5XA
 United Kingdom

Tel: +44 (0) 1782 454499**Email:** sales@easycomposites.com**1.4. Emergency telephone number**

Emergency tel: +44 (0) 1782 454499 (office hours only)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification (Regulation (EC) No. 1272/2008)**

Flam. Liq. 3 H226

Acute Tox. 4 H332

Skin Irrit. 2 H315

Eye Irrit. 2 H319

Repr. 2 H361d

STOT SE 3 H335

STOT RE 1 H372

Aquatic Chronic 3 H412

Organs: Ear; Route of exposure: inhalative

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

2.2. Label elements**Labelling according to regulation (EC) No 1272/2008****Hazard pictograms****Signal word**

Danger

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Hazard statements

H226	Flammable liquid and vapour.
H332	Harmful if inhaled.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H361d	Suspected of damaging the unborn child.
H335	May cause respiratory irritation.
H372	Causes damage to organs through prolonged or repeated exposure.
	Ear; Route of exposure: inhalative
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P210.9	Keep away from sparks, open flames and other ignition sources. No smoking.
P260.8	Do not breathe vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/ attention.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains styrene;methacrylic acid

2.3. Other hazards

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Hazardous ingredients****styrene**

CAS No.	100-42-5				
EINECS no.	202-851-5				
Registration no.	01-2119457861-32-XXXX				
Concentration	>= 29	< 50	%		
Flam. Liq. 3	H226				
Skin Irrit. 2	H315				
Acute Tox. 4	H332				
Eye Irrit. 2	H319				
STOT SE 3	H335				
STOT RE 1	H372	Organs: Ear; Route of exposure: inhalative			
Asp. Tox. 1	H304				
Repr. 2	H361d				
Aquatic Chronic 3	H412				
STOT RE 1	H372				

cATpE	inhalative, Dust/Mist	1,5	mg/l
ATE	inhalative, Vapors	11,8	mg/l

Additional remarks:

CLP Regulation (EC) No 1272/2008, Annex VI, Note D

methacrylic acid

CAS No.	79-41-4
EINECS no.	201-204-4
Registration no.	01-2119463884-26-0000

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Concentration	>=	1	<	3	%
Acute Tox. 4		H302			
Acute Tox. 3		H311			
Acute Tox. 4		H332			
Skin Corr. 1B		H314			
Eye Dam. 1		H318			
STOT SE 3		H335			

		STOT SE 3	H335	>= 1 %	
cATpE	oral		500		mg/kg
cATpE	dermal		1.100		mg/kg

Additional remarks:

CLP Regulation (EC) No 1272/2008, Annex VI, Note D

Complete text of hazard statements in chapter 16

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Adhere to personal protective measures when giving first aid. Remove soiled or soaked clothing immediately, do not allow to dry. If the patient is likely to become unconscious, place and transport in stable sideways position.

After inhalation

Remove the casualty into fresh air and keep him calm. Irregular breathing/no breathing: artificial respiration. In the event of symptoms take medical treatment.

After skin contact

Wash off immediately with soap and water.

After eye contact

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Seek medical advice immediately. Remove contact lenses

After ingestion

Rinse mouth thoroughly with water. Summon a doctor immediately. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. If individual is drowsy or unconscious place in recovery position (on left side, with head down).

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

The following symptoms may occur: Headache, Dizziness, Nausea, Dizziness

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**

Alcohol-resistant foam, Dry powder, Carbon dioxide

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of combustion evolution of dangerous gases possible. In the event of fire the following can be released: Carbon monoxide (CO); Nitrogen oxides (NOx); dense black smoke

5.3. Advice for firefighters

Use self-contained breathing apparatus.

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Cool endangered containers with water spray jet. Collect contaminated fire-fighting water separately, must not be discharged into the drains.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Avoid contact with skin, eyes and clothing. Use personal protective clothing. Keep away sources of ignition. Ensure adequate ventilation. Use breathing apparatus if exposed to vapours/dust/aerosol.

6.2. Environmental precautions

Do not allow to enter drains or waterways. Do not discharge into the subsoil/soil. Prevent spread over a wide area (e.g. by containment or oil barriers).

6.3. Methods and material for containment and cleaning up

Pick up with absorbent material (eg sand, kieselgur, acid binder, universal binder, sawdust). When picked up, treat material as prescribed under Section 13 "Disposal".

6.4. Reference to other sections

Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid formation of aerosols. Observe the usual precautions for handling chemicals.

Keep away from sources of ignition - No smoking. Take action to prevent static discharges. Vapours can form an explosive mixture with air.

7.2. Conditions for safe storage, including any incompatibilities

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Keep container tightly closed and dry in a cool, well-ventilated place. Protect from heat and direct sunlight.

7.3. Specific end use(s)

No information available

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure limit values****methacrylic acid**

List	EH40			
Type	WEL			
Value	72	mg/m ³	20	ppm(V)
Short term exposure limit	143	mg/m ³	40	ppm(V)

styrene

List	EH40			
Type	WEL			
Value	430	mg/m ³	100	ppm(V)
Short term exposure limit	1080	mg/m ³	250	ppm(V)

Derived No/Minimal Effect Levels (DNEL/DMEL)**styrene**

DNEL				
Conditions	Worker	Acute	inhalative	Systemic effects
Concentration	289	mg/m ³		

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DNEL Conditions Concentration	Worker 85	Long term mg/m ³	inhalative	Systemic effects
DNEL Conditions Concentration	Worker 306	Acute mg/m ³	inhalative	Local effects
DNEL Conditions Concentration	Worker 406	Long term mg/kg/d	dermal	Systemic effects

8.2. Exposure controls**Appropriate engineering controls**

Use only in well ventilated areas.

Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

General protective and hygiene measures

Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid contact with skin and eyes. Do not inhale gases/vapours/aerosols. Personal protective equipment must comply with the Regulation (EC) No 2016/425 and the resulting CEN standards.

Respiratory protection

If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn.

Short term: filter apparatus, Filter A; Self-contained breathing apparatus. Respiratory protection must comply with DIN EN 136 / DIN EN 140 / DIN EN 143 / DIN EN 149.

Hand protection

Chemical resistant gloves

Appropriate Material Butyl rubber

Material thickness 0,7 mm

Breakthrough time = 30 min

Hand protection must comply with EN 374.

Eye protection

Tightly fitting safety glasses; Eye protection must comply with EN ISO 16321-1:2022.

Body protection

Clothing as usual in the chemical industry. Wear protective clothing according to EN 13034: 2005 + A1: 2009.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Form	liquid
Colour	yellow-green
Odour	characteristic
Melting point	
Remarks	Not applicable
Freezing point	
Remarks	Not applicable
Boiling point	
Value	145 °C
Remarks	Information refers to the main component.
Flammability	
Flammable.	

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Explosion limits

Lower explosion limit 1,1 to 6,1 %(V)
 Remarks Information refers to the main component.

Flash point

Value 33 °C
 Method ISO 3679-B

Auto-ignition temperature

Value 490 °C
 Remarks Information refers to the main component.

Thermal decomposition

Remarks No data available

Self Accelerating Decomposition / Polymerization Temperature (SADT/SAPT)

Remarks Not applicable

pH value

Remarks Not applicable

Solubility in other solvents

Value 320 mg/l
 25 °C
 Remarks Information refers to the main component.
 Source Manufacturer's data

Octanol/water partition coefficient (log Pow)

Remarks No data available

Vapour pressure

Value 6,67 hPa
 Temperature 20 °C
 Remarks Information refers to the main component.

Density

Value 1,1 g/cm³
 Temperature 20 °C
 Method DIN EN ISO 2811

Vapour density

Remarks No data available

Particle characteristics

Remarks Not applicable

9.2. Other information**Efflux time**

Value 50 s
 Method DIN EN ISO 2431 - 6 mm

SECTION 10: Stability and reactivity**10.1. Reactivity**

No hazardous reactions when stored and handled according to prescribed instructions.

10.2. Chemical stability

The product is stable.

10.3. Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4. Conditions to avoid

Protect from heat and direct sunlight.

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Thermal decomposition

Remarks No data available

10.5. Incompatible materials

Reactions with peroxides and other radical components.

10.6. Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute oral toxicity**

ATE > 10.000 mg/kg
 Method calculated value (Regulation (EC) No. 1272/2008)
 Based on available data, the classification criteria are not met.

Acute oral toxicity (Components)**styrene**

Species rat
 LD50 > 5000 mg/kg

Acute dermal toxicity

ATE > 10.000 mg/kg
 Method calculated value (Regulation (EC) No. 1272/2008)
 Based on available data, the classification criteria are not met.

Acute dermal toxicity (Components)**styrene**

Species rat
 LD50 > 5000 mg/kg

Acute inhalational toxicity

ATE 33,71 mg/l
 Administration/Form Vapors
 Method calculated value (Regulation (EC) No. 1272/2008)
 ATE 4,29 mg/l
 Administration/Form Dust/Mist
 Method calculated value (Regulation (EC) No. 1272/2008)
 The classification criteria are met.

Acute inhalative toxicity (Components)**styrene**

Species rat
 LC50 11,8 mg/l
 Duration of exposure 4 h
 Administration/Form Vapors

Skin corrosion/irritation

evaluation irritant
 The classification criteria are met.

Serious eye damage/irritation

evaluation irritant
 The classification criteria are met.

Sensitization

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

Mutagenicity

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

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Reproductive toxicity

evaluation Suspected of damaging the unborn child.
 The classification criteria are met.

Carcinogenicity

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

Specific Target Organ Toxicity (STOT)**Single exposure**

The classification criteria are met.
 evaluation May cause respiratory irritation.

Repeated exposure

The classification criteria are met.
 evaluation Causes damage to organs through prolonged or repeated exposure

Specific Target Organ Toxicity (STOT) (Components)**styrene****Repeated exposure**

evaluation Causes damage to organs through prolonged or repeated exposure
 Route of exposure inhalative
 Organs: Ear

Aspiration hazard

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

11.2. Information on other hazards**Endocrine disrupting properties with respect to humans**

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

Other information

Inhalation of solvent vapours in higher concentration may lead to nausea, headache, drowsiness and dizziness.

SECTION 12: Ecological information**12.1. Toxicity****Fish toxicity****styrene**

LC/EC/IC50 > 1,0 to 10 mg/l

Daphnia toxicity**styrene**

Species Daphnia magna
 LC/EC/IC50 > 1,0 to 10 mg/l

Algae toxicity**styrene**

LC/EC/IC50 > 1,0 to 10 mg/l

Bacteria toxicity

No toxicological data are available.

12.2. Persistence and degradability

For this subsection there is no ecotoxicological data available on the product as such.

Biodegradability**styrene**

evaluation Readily biodegradable (according to OECD criteria)

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12.3. Bioaccumulative potential

For this subsection there is no ecotoxicological data available on the product as such.

Octanol/water partition coefficient (log Pow)

Remarks

No data available

12.4. Mobility in soil

For this subsection there is no ecotoxicological data available on the product as such.

12.5. Results of PBT and vPvB assessment**Evaluation of persistence and bioaccumulation potential**

The product contains no PBT substances

The product contains no vPvB substances.

12.6 Endocrine disrupting properties**Endocrine disrupting properties with respect to the environment**

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects

For this subsection there is no ecotoxicological data available on the product as such.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations for the product**

EWC waste code 07 02 08* other still bottoms and reaction residues

The listed waste code numbers, according to the European Waste Catalogue (EWC), are to be understood as a recommendation. A final decision must be made in agreement with the regional waste disposal company.

Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off as product waste.

SECTION 14: Transport information

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	Land transport ADR/RID	Marine transport IMDG/GGVSee
14.1. UN number	1866	1866
14.2. UN proper shipping name	RESIN SOLUTION	RESIN SOLUTION
14.3. Transport hazard class(es)	3	3
14.4. Packing group	III	III
Label		
14.5. Environmental hazards	-	
Limited Quantity		5 l
Limited Quantity	5 l	
Transport category	3	
Tunnel restriction code	D/E	
Hazard id. no.	30	
EmS		F-E, S-E
Remarks	Viscous product: Transport according to paragraph 2.2.3.1.5 ADR/RID	Transport according to 2.3.2.5 of the IMDG Code

Information for all modes of transport**14.6. Special precautions for user**

Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Other information**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****Major-accident categories acc. 2012/18/EU**

Category P5c FLAMMABLE LIQUID

VOC ***

VOC (EU) 1,99 %

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Remarks This product may contain solvents that change chemically during processing. According to the Industrial Emissions Directive (Regulation 2010/75), such solvents are not to be classified as volatile organic compounds (VOC).

Other information

The product does not contain substances according to: Candidate List for inclusion in Annex XIV of Regulation (EC) No. 1907/2006 (REACH).

15.2. Chemical safety assessment

No information available

SECTION 16: Other information**Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:**

Flam. Liq. 3	H226	On basis of test data
Acute Tox. 4	H332	Calculation method
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Repr. 2	H361d	Calculation method
STOT SE 3	H335	Calculation method
STOT RE 1	H372	Calculation method
Aquatic Chronic 3	H412	Calculation method

Hazard statements listed in Chapter 2/3

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

CLP categories listed in Chapter 2/3

Acute Tox. 3	Acute toxicity, Category 3
Acute Tox. 4	Acute toxicity, Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Flam. Liq. 3	Flammable liquid, Category 3
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1B	Skin corrosion, Category 1B
Skin Irrit. 2	Skin irritation, Category 2
STOT RE 1	Specific target organ toxicity - repeated exposure, Category 1
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

Abbreviations

ATE: Acute Toxicity Estimates
 CAS: Chemical Abstracts Service
 cATpE: Converted acute toxicity point estimate
 EAK: Europäischer Abfallkatalog
 EINECS: European Inventory of Existing Commercial Chemical Substances

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PBT: Persistent, Bioaccumulative and Toxic
vPvB: Very persistent and very bioaccumulative
VOC: Volatile Organic Compound

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.