

Date revised: 26.01.2023

Version: 3 / GB Master No. M-401 Print date: 22.05.2023

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

## 1.1. Product identifier

#### Trade name

VE140 Fuel Resistant Vinylester Resin

#### 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 / vinvl 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.co.uk

## 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 Organs: Ear; Route of exposure: inhalative

Aquatic Chronic 3 H412

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008 For explanation of abbreviations see section 16.

# Labelling according to regulation (EC) No 1272/2008

Labelling according to regulation (EC) No 1272/2008

**Hazard pictograms** 



Signal word

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Hazard	statements
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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

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

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

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Registration no.	01-2119463884-2	6-0000		
Concentration	>= 1	< 3	%	
Acute Tox. 4	H302			
Acute Tox. 4	H312			
Skin Corr. 1A	H314			
	STOT SE 3	H335 >= 1 %		
cATpE	oral	500	mg/kg	
cATpE	dermal	1.100	mg/kg	
Additional rema	rks:		2 3	
CLP	Regulation (EC) N	lo 1272/2008, Anne:	VI, Note D	
Complete text o	of hazard statements in ch	apter 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.

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

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# 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**

	4.			
me	etn	acr	VIIC	acid

Type	WEL			
Value	72	mg/m³	20	ppm(V)
Short term exposure limit	143	mg/m³	40	ppm(V)

EH40

#### styrene

List

List	EH40
Type	WEL

Value	430	mg/m³	100	ppm(V)
Short term exposure limit	1080	mg/m³	250	ppm(V)

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

#### styrene

DNEL

Conditions Worker Acute inhalative Systemic effects
Concentration 289 mg/m³

**DNEL** 

Conditions Worker Long term inhalative Systemic effects

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Concentration	85		mg/m³		
DNEL Conditions Concentration	Worker 306	Acute	mg/m³	inhalative	Local effects
DNEL Conditions Concentration	Worker 406	Long te	erm 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 recommendedor 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 166.

#### **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

Colouryellow-greenOdourcharacteristic

**Melting point** 

Remarks Not applicable

Freezing point

Remarks Not applicable

**Boiling point** 

Value 145 °C Remarks Information refers to the main component.

**Flammability** 

No data available

**Explosion limits** 

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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

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/cm<sup>3</sup>

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.

Thermal decomposition

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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.

Reproductive toxicity

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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

stvrene

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)

#### 12.3. Bioaccumulative potential

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

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## 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 persistance and bioaccumulation potential

The product contains no PBT substances The product contains no vPvB substances.

#### 12.6. Other adverse effects

#### Endocrine disrupting properties with respect to the envrionment

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	Ш	Ш	
Label	3	***	
14.5. Environmental hazards	-		
Limited Quantity		51	
Limited Quantity	51		
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

P5c FLAMMABLE LIQUID Category

VOC

VOC (EU) 1,99 %

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#### 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.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
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. 4 Acute toxicity, Category 4

Aquatic Chronic 3 Hazardous to the aquatic environment, chronic, Category 3

Asp. Tox. 1

Eye Irrit. 2

Flam. Liq. 3

Repr. 2

Skin Corr. 1A

Skin Irrit. 2

Aspiration hazard, Category 1

Eye irritation, Category 2

Flammable liquid, Category 3

Reproductive toxicity, Category 2

Skin corrosion, Category 1A

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

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.

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