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

1.1. Product identifier

Trade name

AC1 Cobalt Accelerator

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

Use of the substance/mixture

Catalysts

Uses advised against

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

1.3. Details of the supplier of the safety data sheet

Address

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

+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
Skin Sens. 1	H317
Repr. 2	H361fd
STOT SE 3	H335
STOT RE 1	H372
Asp. Tox. 1	H304
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.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms

Signal word

Danger

Hazard statements

H226	Flammable liquid and vapour.
H332	Harmful if inhaled.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H335	May cause respiratory irritation.
H372	Causes damage to organs through prolonged or repeated exposure.
H304	May be fatal if swallowed and enters airways.
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.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor.
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.
P331	Do NOT induce vomiting.

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

contains styrene;m-xylene;Neodecanoic acid, cobalt salt

2.3. Other hazards

The product does not contain PBT/vPvB-substances.

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	>=	59			%
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				

m-xylene

CAS No.	1330-20-7				
EINECS no.	215-535-7				
Registration no.	01-2119488216-32-XXXX				
Concentration	>=	20	<	25	%
Skin Irrit. 2	H315				
Flam. Liq. 3	H226				

Acute Tox. 4	H312
Acute Tox. 4	H332
Eye Irrit. 2	H319
STOT SE 3	H335
STOT RE 2	H373
Asp. Tox. 1	H304

Neodecanoic acid, cobalt salt

CAS No.	27253-31-2				
EINECS no.	248-373-0				
Registration no.	01-2119970733-31-0006				
Concentration	>=	3	<	10	%
Acute Tox. 4	H302				
Skin Sens. 1	H317				
Repr. 2	H361				
Aquatic Chronic 3	H412				

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. Poisonous symptoms can first be observed after several hours, there- fore medical observation for at least 48 hours is necessary.

After inhalation

Remove the casualty into fresh air and keep him calm. In the event of symptoms take medical treatment.

After skin contact

After contact with skin, wash immediately with plenty of water. Consult a doctor if skin irritation persists.

After eye contact

In case of contact with the eyes rinse thoroughly with plenty of water or with an eye-cleaning solution. Remove contact lenses. Seek medical advice immediately.

After ingestion

Do not induce vomiting. Summon a doctor immediately. Rinse mouth thoroughly with water. Let plenty of water be drunk in small gulps.

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

The following symptoms may occur: Headache, Dizziness, Nausea

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, Water spray jet

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); Carbon dioxide (CO_2); Metal oxides

5.3. Advice for firefighters

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

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). In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Take up with absorbent material (eg sand, kieselguhr, universal binder). 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). 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

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

styrene

List	EH40			
Type	WEL			
Value	430	mg/m³	100	ppm(V)
Short term exposure limit	1080	mg/m³	250	ppm(V)

m-xylene

List	IOELV			
Type	IOELV			
Value	221	mg/m³	50	ppm(V)
Short term exposure limit	442	mg/m³	100	ppm(V)

Maximum limit value; Skin resorption / sensibilisation: Sk; Pregnancy group; Status; Remarks: Skin

Derived No/Minimal Effect Levels (DNEL/DMEL)

styrene

Reference substance	styrene

DNEL				
Conditions	Worker	Acute	inhalative	Systemic effects
Concentration	289	mg/m³		
DNEL				
Conditions	Worker	Long term	inhalative	Systemic effects
Concentration	85	mg/m³		
DNEL				
Conditions	Worker	Acute	inhalative	Local effects
Concentration	306	mg/m³		
DNEL				
Conditions	Worker	Long term	dermal	Systemic effects
Concentration	406	mg/kg/d		

m-xylene

DNEL				
Conditions	Worker	Short term	inhalative	Systemic effects
Concentration	289	mg/m³		
DNEL				
Conditions	Worker	Short term	inhalative	Local effects
Concentration	289	mg/m³		
DNEL				
Conditions	Worker	Lifetime	dermal	Systemic effects
Concentration	180	mg/kg		
DNEL				
Conditions	Worker	Lifetime	inhalative	Systemic effects
Concentration	77	mg/m³		

8.2. Exposure controls

General protective and hygiene measures

Provide good ventilation of working area (local exhaust ventilation if necessary). Personal protective equipment must comply with the Regulation (EC) No 2016/425 and the resulting CEN standards.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. Breathing apparatus in the event of high concentrations. Short term: filter apparatus, Filter A

Hand protection

Chemical resistant gloves

Appropriate Material	Butyl rubber		
Material thickness		07	mm
Breakthrough time	=	30	min

Eye protection

Tightly fitting safety glasses

Body protection

Clothing as usual in the chemical industry.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form liquid

Colour	blue		
Odour	of styrene		
Odour threshold			
Remarks	No data available		
pH value			
Remarks	No data available		
Melting point			
Remarks	No data available		
Freezing point			
Remarks	No data available		
Boiling point			
Remarks	No data available		
Flash point			
Value	28,5		°C
Method	ISO 13736		
Evaporation rate			
Remarks	No data available		
Efflux time			
Value	5		s
Temperature	23	°C	
Method	DIN EN ISO 2431 - 6 mm		
Flammability			
No data available			
Explosion limits			
Remarks	No data available		
Vapour pressure			
Remarks	No data available		
Vapour density			
Remarks	No data available		
Density			
Value	0,91		g/cm³
Temperature	20	°C	
Solubility in water			
Remarks	No data available		
Solubility in other solvents			
Remarks	No data available		
Octanol/water partition coefficient (log Pow)			
Remarks	No data available		
Ignition temperature			
Value	490		°C
Remarks	Information refers to the main component. Styrol		
Auto-ignition temperature			
Remarks	No data available		
Thermal decomposition			
Remarks	No decomposition if used as prescribed.		
Explosive properties			
evaluation	no data		

Oxidising properties

Remarks No data available

9.2. Other information

No information available.

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

Reactions with strong acids and alkalies.

10.4. Conditions to avoid

Heat, flames, sparks

10.5. Incompatible materials

Keep away from extremely acidic or alkaline materials, catalytic metal compounds and strong oxidation agents.

10.6. Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

ATE	6.990	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	

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

Acute dermal toxicity

ATE	7.281	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	

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

Acute inhalational toxicity

ATE	12,48	mg/l
Administration/Form	Vapors	
Method	calculated value (Regulation (EC) No. 1272/2008)	
ATE	1,62	mg/l
Administration/Form	Dust/Mist	
Method	calculated value (Regulation (EC) No. 1272/2008)	

The classification criteria are met.

Skin corrosion/irritation

evaluation irritant

The classification criteria are met.

Serious eye damage/irritation

evaluation irritant

The classification criteria are met.

Sensitization

evaluation May cause sensitization by skin contact.

The classification criteria are met.

Sensitization (Components)

styrene

evaluation	non-sensitizing

m-xylene

evaluation	non-sensitizing

Mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

evaluation	Suspected of damaging fertility. Suspected of damaging the unborn child.

The classification criteria are 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

Aspiration hazard

The classification criteria are met.

Harmful: may cause lung damage if swallowed.

Other information

Inhaling solvent parts above the workplace threshold value can cause irritation of mucous membranes and respiratory organs, kidney and liver damage as well as damage to the central nervous system.

SECTION 12: Ecological information

Ecological data are not available. Do not discharge into the drains/surface waters/groundwater.

12.1. Toxicity

Fish toxicity

styrene

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

m-xylene

LC50		2,6			mg/l
Duration of exposure		96	h		
NOEC	>	1,3			mg/l
Duration of exposure		56	Days		

Daphnia toxicity

styrene

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

m-xylene

Species		Daphnia magna			
EC50		1			mg/l
Duration of exposure		48	h		
Species		Daphnia magna			
NOEC		0,96			mg/l
Duration of exposure		7	Days		

Algae toxicity

styrene

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

m-xylene

EC50	2,2		mg/l
Duration of exposure	72	h	

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)

m-xylene

evaluation	good degradability
Remarks	The product is highly volatile and can be largely eliminated from the water by stripping.

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

The product does not contain PBT/vPvB-substances.

12.6. 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 04*	other organic solvents, washing liquids and mother liquors

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

	Land transport ADR/RID	Marine transport IMDG/GGVSee
Tunnel restriction code	D/E	
14.1. UN number	1993	1993
14.2. UN proper shipping name	FLAMMABLE LIQUID, N.O.S., (styrene, m-xylene)	FLAMMABLE LIQUID, N.O.S. (styrene, m-xylene)
14.3. Transport hazard class(es)	3	3
Label		
14.4. Packing group	III	III
Limited Quantity	5 l	
Transport category	3	

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.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

VOC

VOC (EU) 23,35 %

Major-accident categories acc. 2012/18/EU

Category P5c FLAMMABLE LIQUID

Other information

The product does not contain substances of very high concern (SVHC).

15.2. Chemical safety assessment

No information available

SECTION 16: Other information

Alterations/supplements: Alterations to the previous edition are marked with an asterisk (*) in the left-hand margin.

Hazard statements listed in Chapter 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.
H315 Causes skin irritation.

H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H361	Suspected of damaging fertility or the unborn child.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

Abbreviations

CAS: Chemical Abstracts Service
EAK: Europäischer Abfallkatalog
EINECS: European Inventory of Existing Commercial Chemical Substances
vPvB: Very persistent and very bioaccumulative
vPvB: Very persistent and very bioaccumulative
VOC: Volatile Organic Compound

CLP categories listed in Chapter 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 Irrit. 2	Eye irritation, Category 2
Flam. Liq. 3	Flammable liquid, Category 3
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1
STOT RE 1	Specific target organ toxicity - repeated exposure, Category 1
STOT RE 2	Specific target organ toxicity - repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

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.