

BC EA4 2217 AF – ACTIVATOR

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

1.1 - Product identifier

Trade name/designation BC EA4 2217 AF - ACTIVATOR
Chemical name
Product-type Mixture

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

1.3 - Details of the supplier of the safety data sheet
BRADECHEM LTD, UNIT 1 THE BUSINESS VENUE,
GRANDHOLM CRES, ABERDEEN, AB22 8AA
SALES@BRADECHEM.COM +44(0)1224822227

1.4 - Emergency telephone number

+44(0)1224822227

SECTION 2: Hazards identification

2.1 - Classification of the substance or mixture

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

Acute Tox. 4 Oral	Acute toxicity (oral) - Category 4
Skin Corr. 1B	Skin corrosion, Category 1B
Eye Dam. 1	Serious eye damage, Category 1
Skin Sens. 1	Skin sensitization - Category 1
STOT SE 3 (H335)	STOT-single exposure - Category 3 (H335)
STOT SE 3 (H336)	STOT-single exposure - Category 3 (H336)

2.2 - Label elements

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

Contains: butan-1-ol, n-butanol (CAS No.: 71-36-3)||2,2'-iminodiethylamine, diethylenetriamine (CAS No.: 111-40-0)||Epoxy resin (average mol. weight 700-1000) (CAS No.: 25036-25-3)

Signal word : Danger

Hazard pictograms



Hazard statements

H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness

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Precautionary statements

P260	Do not breathe vapours.
P261	Avoid breathing vapours.
P264	Wash face, hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves, protective clothing, eye protection, face protection, Face protection shield.
P301+P312	If swallowed: Call a POISON CENTER if you feel unwell.
P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
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.
P310	Immediately call a POISON CENTER.
P312	Call a a POISON CENTER if you feel unwell.
P321	Specific treatment (see information on this label).
P322	Specific measures (see information on this label).
P330	Rinse mouth.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P363	Wash contaminated clothing before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of container in an approved treatment center.

EUH-phrases

EUH208	Contains 2,2'-iminodiethylamine, diethylenetriamine (111-40-0) Epoxy resin (average mol. weight 700-1000) (25036-25-3) . May produce an allergic reaction
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2.3 - Other hazards

SECTION 3: Composition / information on ingredients

3.1 - Substances

Not applicable

3.2 - Mixtures

Chemical name	No	%	Class	Spec. concentrations
Epoxy resin (average mol. weight 700-1000)	CAS No. : 25036-25-3 Index No. : EC No. :	30-40	Skin Sens. 1 - H317	Not applicable

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butan-1-ol, n-butanol	CAS No. : 71-36-3 Index No. : 603-004-00-6 EC No. : 200-751-6	20-30	Acute Tox. 4 Oral - H302 Eye Dam. 1 - H318 Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 STOT SE 3 (H335) - H335 STOT SE 3 (H336) - H336	Not applicable
Chemical name	No	%	Class	Spec. concentrations
2,2'-iminodiethylamine, diethylenetriamine	CAS No. : 111-40-0 Index No. : 612-058-00-X EC No. : 203-865-4	5-10	Acute Tox. 4 Dermal - H312 Acute Tox. 4 Oral - H302 Skin Corr. 1B - H314 Skin Sens. 1 - H317	Not applicable

SECTION 4: First aid measures

4.1 - Description of first aid measures

Following inhalation

- No special measures are necessary.
- Provide fresh air.

Following skin contact

- After contact with skin, wash immediately with plenty of water and soap.
- Remove contaminated, saturated clothing immediately.
- In case of skin reactions, consult a physician.

After eye contact

- In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion

- If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.
- Seek medical advice immediately.
- Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.
- Rinse mouth thoroughly with water.
- Medical treatment necessary.
- When in doubt or if symptoms are observed, get medical advice.

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

Symptoms and effects - Following inhalation

- No information available.

Symptoms and effects - Following skin contact

- Causes skin irritation.

Symptoms and effects - After eye contact

- Serious eye damage/eye irritation

Symptoms and effects - After ingestion

- No information available.

4.3 - Indication of any immediate medical attention and special treatment needed

- Treat symptomatically. Antidotal dispensation.
- Treat symptomatically.

SECTION 5: Firefighting measures

5.1 - Extinguishing media

Suitable extinguishing media

- ABC-powder

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- Carbon dioxide (CO₂)
- Foam
- Extinguishing powder

Unsuitable extinguishing media

- Full water jet

5.2 - Special hazards arising from the substance or mixture

Special hazards arising from the substance or mixture

- No information available.

5.3 - Advice for firefighters

- Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.
- Do not allow run-off from fire-fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1 - Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

- Use personal protection equipment.

For emergency responders

- No information available.

6.2 - Environmental precautions

- Do not allow to enter into surface water or drains.
- Ensure waste is collected and contained.

6.3 - Methods and material for containment and cleaning up

Methods and material for containment

- Soak up inert absorbent and dispose as waste requiring special attention.

Methods and material for cleaning up

- Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
- Clear contaminated areas thoroughly.
- Take up carefully when dry.
- Clean contaminated articles and floor according to the environmental legislation.

Inappropriate techniques

- No information available.

6.4 - Reference to other sections

- Disposal: see section 13
- Personal protection equipment: see section 8

SECTION 7: Handling and storage

7.1 - Precautions for safe handling

Recommendation

- Avoid: Eye contact
- It is recommended to design all work processes always so that the following is excluded: Eye contact
- It is recommended to design all work processes always so that the following is excluded: Skin contact
- After use replace the closing cap immediately.
- Avoid exposure - obtain special instructions before use.

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	- Avoid: Skin contact
<u>Advices on general occupational hygiene</u>	- Wash contaminated clothing prior to re-use. - When using do not eat, drink, smoke, sniff.
	- Thorough skin-cleansing after handling the product. - Wash hands before breaks and after work.

7.2 - Conditions for safe storage, including any incompatibilities







- Store in a place accessible by authorized persons only.
- Keep away from: Food and feedingstuffs
- Only use containers specifically approved for the substance/product.
- Storage class Non-combustible substances of acute toxicity, category 1 and 2 / very toxic substances (liquid)
- Do not store together with: Food and feedingstuffs

7.3 - Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1 - Control parameters

8.2 - Exposure controls

<u>Appropriate engineering controls</u>	- No information available.	
<u>Individual protection measures, such as personal protective equipment</u>	- Suitable eye protection: Eye glasses with side protection	
	- Suitable eye protection: Dust protection eye glasses	
	- Suitable protective clothing: lab coat	
	- Suitable eye protection: Face protection umbrella	
	- Suitable protective clothing: Protective apron	
	- Tested protective gloves must be worn	

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- For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.
- Barrier creams are not substitutes for body protection.

Environmental exposure controls

- Further information: see technical data sheet.

SECTION 9: Physical and chemical properties

9.1 - Information on basic physical and chemical properties

<u>Physical state</u>	Liquid	<u>Appearance</u>	Liquid
<u>Colour</u>	transparent	<u>Odour</u>	
Odour threshold	No data available		
pH	No data available		
Melting point	No data available		
Freezing point	No data available		
Boiling point	No data available		
Flash point	No data available		
Evaporation rate	No data available		
flammability	No data available		
Lower explosion limit	No data available		
Upper explosion limit	No data available		
Vapour pressure	No data available		
Vapour density	No data available		
Relative density	No data available		
Density	0.97 g/m3		
Solubility (Water)	No data available		
Solubility (Ethanol)	No data available		
Solubility (Acetone)	No data available		
Solubility (Organic solvents)	No data available		
Log KOC	No data available		
Auto-ignition temperature	No data available		
Decomposition temperature	No data available		
Kinematic viscosity	No data available		
Dynamic viscosity	No data available		

9.2 - Other information

VOC content	No data available
Minimum ignition energy	No data available
Conductivity	No data available

SECTION 10: Stability and reactivity

10.1 - Reactivity

- This material is considered to be non-reactive under normal use conditions.

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10.2 - Chemical stability

- The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 - Possibility of hazardous reactions

- No hazardous reaction when handled and stored according to provisions.

10.4 - Conditions to avoid

- No information available.

10.5 - Incompatible materials

- No information available.

10.6 - Hazardous decomposition products

- Does not decompose when used for intended uses.

SECTION 11: Toxicological information

11.1 - Information on toxicological effects

Acute toxicity - Acute toxicity (oral) - Category 4 - Harmful if swallowed

Toxicity : Mixture

LD50 oral (rat)	No data available
LD50 dermal (rat)	No data available
LD50 dermal (rabbit)	No data available
LC50 inhalation (rat)	No data available
LC50 inhalation dusts and mists (rat)	No data available
LC50 inhalation vapours (rat)	No data available

- No information available.

Toxicity : Substances

butan-1-ol, n-butanol (71-36-3)	
LD50 oral (rat)	790 mg/kg Liver:Fatty liver degeneration. Kidney, Ureter, Bladder:Other changes. Blood:Other changes.
LD50 dermal (rabbit)	3400 mg/kg
LC50 inhalation (rat)	8000 ppmV 4 hours
Epoxy resin (average mol. weight 700-1000) (25036-25-3)	
LD50 oral (rat)	> 2000 mg/kg
LD50 dermal (rat)	> 2000 mg/kg

Skin corrosion/irritation - Skin corrosion, Category 1B - Causes severe skin burns and eye damage

- Corrosive.

Serious eye damage/eye irritation - Serious eye damage, Category 1

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Respiratory or skin sensitisation

- Risk of serious damage to eyes.
- Causes serious eye irritation.
- Corrosive.
- Skin sensitization - Category 1 - May cause an allergic skin reaction

- May cause sensitization by skin contact.
- May cause an allergic skin reaction.

Germ cell mutagenicity

- Not classified

Carcinogenicity

- Not classified

Reproductive toxicity

- Not classified

STOT-single exposure

- STOT-single exposure - Category 3 (H335) - May cause respiratory irritation
- STOT-single exposure - Category 3 (H336) - May cause drowsiness or dizziness

- data lacking

STOT-repeated exposure

- Not classified

Aspiration hazard

- Not classified

SECTION 12: Ecological information

12.1 - Toxicity

Toxicity : Mixture

EC50 48 hr crustacea	No data available
LC50 96 hr fish	No data available
ErC50 algae	No data available
ErC50 other aquatic plants	No data available
NOEC chronic fish	No data available
NOEC chronic crustacea	No data available
NOEC chronic algae	No data available
NOEC chronic other aquatic plants	No data available

Toxicity : Substances

butan-1-ol, n-butanol (71-36-3)

EC50 48 hr crustacea	1983 mg/l
LC50 96 hr fish	1840 mg/l

- The substance/mixture does not fulfill the criteria of the acute aquatic toxicity according to Regulation (EC) No 1272/2008 [CLP], Annex I.

12.2 - Persistence and degradability

Biochemical oxygen demand (BOD)	No data available
Chemical oxygen demand (COD)	No data available
% of biodegradation in 28 days	No data available

- No information available.

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12.3 - Bioaccumulative potential

Bioconcentration factor (BCF)	No data available
Log KOC	No data available

- No indication of bioaccumulation potential.

12.4 - Mobility in soil

- No information available.

12.5 - Results of PBT and vPvB assessment

12.6 - Other adverse effects

- No information available.

SECTION 13: Disposal considerations

13.1 - Waste treatment methods

Waste treatment methods - Dispose of waste according to applicable legislation.

Sewage disposal - No information available.

Special precautions for waste treatment

- Waste for disposal is to be classified and labelled.
- Do not mix with other wastes.
- Consult the appropriate local waste disposal expert about waste disposal.
- Waste requires special monitoring.
- Collect the waste separately.
- Send to a hazardous waste incinerator facility under observation of official regulations.
- The waste is to be kept separate from other types of waste until its disposal.

Community or national or regional provisions - No information available.

SECTION 14: Transport information

14.1 - UN number

UN number (ADR) : UN1263
UN number (RID) : UN1263
UN number (ADN) : UN1263

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UN number (IMDG) : UN1263

UN number (IATA) : UN1263

14.2 - UN proper shipping name

UN proper shipping name (ADR) : PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound) 640E

UN proper shipping name (RID) : PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound) 640E

UN proper shipping name (ADN) : PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound) 640E

UN proper shipping name (IMDG) : PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound) 640E

UN proper shipping name (IATA) : PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound) 640E

14.3 - Transport hazard class(es)

ADR Transport hazard class(es) : 3

ADR Classification code: F1

Pictograms

Transport hazard class(es) (RID) : 3

Pictograms

Transport hazard class(es) (ADN) : 3

Pictograms



Transport hazard class(es) (IMDG) : 3

Pictograms



Transport hazard class(es) (IATA) : 3

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Pictograms



14.4 - Packing group

<u>Packing group</u>	:	III
<u>Packing group (RID)</u>	:	III
<u>Packing group (ADN)</u>	:	III
<u>Packing group (IMDG)</u>	:	III
<u>Packing group (IATA)</u>	:	III

14.5 - Environmental hazards

<u>Environmental hazards</u>	:	No
<u>Marine pollutant</u>	:	No

14.6 - Special precautions for user

ADR

<u>ADR Classification code:</u>	:	F1
<u>ADR Special provisions</u>	:	163+ 640E+650+367
<u>ADR Limited quantity (LQ)</u>	:	5 L
<u>ADR Excepted quantities</u>	:	E1
<u>ADR Packing instructions</u>	:	P001 IBC03 LP01 R001
<u>ADR Special packing provisions</u>	:	PP1
<u>ADR Mixed packing provisions</u>	:	MP19
<u>Instructions for portable tanks and bulk containers</u>	:	T2
<u>Special provisions for portable tanks and bulk containers</u>	:	TP1 TP29
<u>ADR tank code</u>	:	LGBF
<u>ADR tanks special provisions</u>	:	
<u>Vehicle for tank carriage</u>	:	FL
<u>ADR Transport category</u>	:	3
<u>ADR Tunnel restriction code</u>	:	D/E
<u>ADR Special provisions loading, unloading and handling</u>	:	
<u>Special provisions - Packages</u>	:	V12
<u>Special provisions - Bulk</u>	:	
<u>Special provisions - Operation</u>	:	S2
<u>ADR Hazard identification number (Kemler No.)</u>	:	30

RID

<u>Special provisions</u>	:	
<u>Limited quantity (LQ)</u>	:	
<u>Excepted quantities</u>	:	

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ADN

Special provisions :
Limited quantity (LQ) :
Excepted quantities :

IMDG

Special provisions :
Limited quantity (LQ) :
Excepted quantities :
Packing instructions :
Special packing provisions :
IBC instruction(s) :
IBC provisions :
Instructions for portable tanks and bulk containers :
Special provisions for portable tanks and bulk containers :
EmS codes :
Stowage and handling :
Segregation :
Properties and observations :

IATA

PCA - Excepted quantities :
PCA - Limited Quantity - Packing Instructions :
PCA - Limited Quantity - Maximum Net Quantity per Package :
PCA - Packing Instructions :
PCA - Maximum Net Quantity per Package :
CAO - Packing Instructions :
CAO - Maximum Net Quantity per Package :
Special Provisions :
ERG Code :

14.7 - Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

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

<u>Substances REACH candidates</u>	None
<u>Substances Annex XIV</u>	None
<u>Substances Annex XVII</u>	None
<u>VOC content</u>	No data available

15.2 - Chemical Safety Assessment

Chemical safety assessment carried - No information available. out for the product

SECTION 16: Other information

SDS versions

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Version	Issue date	Description of the amendments
1	10.10.2019	

Texts of the regulatory sentences

Acute Tox. 4 Dermal	Acute toxicity (dermal) - Category 4
Acute Tox. 4 Oral	Acute toxicity (oral) - Category 4
Eye Dam. 1	Serious eye damage, Category 1
Flam. Liq. 3	Flammable liquid and vapour. - Category 3
H226	Flammable liquid and vapour
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
Skin Corr. 1B	Skin corrosion, Category 1B
Skin Irrit. 2	Irritation, Category 2
Skin Sens. 1	Skin sensitization - Category 1
STOT SE 3 (H335)	STOT-single exposure - Category 3 (H335)
STOT SE 3 (H336)	STOT-single exposure - Category 3 (H336)

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