



CB420E Acrylic Adhesive

SAFETY DATA SHEET

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830






1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier	
Product Name	CB420E Acrylic Adhesive.
CAS No.	Mixture.
EINECS No.	Mixture.
REACH Registration No.	None assigned.
1.2 Relevant identified uses of the substance or mixture and uses advised against	
Identified use(s)	Two component acrylic adhesive.
Uses advised against	None known.
1.3 Details of the supplier of the Safety Data Sheet	
Company Identification	Click Bond, Inc. 2151 Lockheed Way Carson City, NV 89706 USA
Telephone	001 (775) 885 8000
E-Mail (competent person)	L_Parsley@clickbond.com
1.4 Emergency telephone number	
Company	001 (813) 248 0585
National Poisons Information Service (Birmingham Centre) United Kingdom	111

2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture	
Regulation (EC) No. 1272/2008 (CLP)	
Adhesive	Flam. Liq. 2; Highly flammable liquid and vapour. Skin Corr. 1A; Causes severe skin burns and eye damage. Skin Sens. 1; May cause an allergic skin reaction. Eye Dam. 1; Causes serious eye damage. STOT SE 3; May cause respiratory irritation.
Activator	Skin Irrit. 2; Causes skin irritation. Skin Sens. 1; May cause an allergic skin reaction. Eye Irrit. 2; Causes serious eye irritation. STOT SE 3; May cause respiratory irritation. Aquatic Chronic 2; Toxic to aquatic life with long lasting effects.

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<p>2.2 Label elements</p> <p>Product name</p> <p>Adhesive</p> <p>Contains</p> <p>Hazard pictogram(s)</p> <p>Signal word(s)</p> <p>Hazard statement(s)</p> <p>Precautionary statement(s)</p>	<p>According to Regulation (EC) No. 1272/2008 (CLP) CB420E Acrylic Adhesive.</p> <p>Methyl methacrylate, Methacrylic acid.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  GHS02 </div> <div style="text-align: center;">  GHS05 </div> <div style="text-align: center;">  GHS07 </div> </div> <p>Danger.</p> <p>H314: Causes severe skin burns and eye damage. H317: May cause an allergic skin reaction. P260: Do not breathe vapour. P280: Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/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.</p>
<p>Activator</p> <p>Contains</p> <p>Hazard pictogram(s)</p> <p>Signal word(s)</p> <p>Hazard statement(s)</p> <p>Precautionary statement(s)</p>	<p>Reaction product of epichlorohydrin and bisphenol A.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  GHS07 </div> <div style="text-align: center;">  GHS09 </div> </div> <p>Warning.</p> <p>H317: May cause an allergic skin reaction. P261: Avoid breathing vapours. P272: Contaminated work clothing should not be allowed out of the workplace. P280: Wear protective gloves/protective clothing/eye protection/face protection. P302+P352: IF ON SKIN: Wash with plenty of water. P333+P313: If skin irritation or rash occurs: Get medical advice/attention. P362+P364: Take off contaminated clothing and wash it before reuse.</p>
<p>2.3 Other hazards</p>	<p>None.</p>
<p>2.4 Additional Information</p>	<p>For full text of H/P Statements see section 16.</p>

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3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

EC Classification No. 1272/2008

Adhesive

Hazardous Ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard pictogram(s) and Hazard statement(s)
Methyl methacrylate	30-60	80-62-6	201-297-1	01-2119452498-28-0000	GHS02, Flam. Liq. 2; H225, GHS07, Skin Irrit. 2; H315, Skin Sens. 1; H317, STOT SE 3; H335
Methacrylic acid	5-10	79-41-4	201-204-4	01-2119463884-26-0000	GHS05, Skin Corr. 1A; H314, Eye Dam. 1; H318, GHS07, Acute Tox. 4; H302, H312, STOT SE 3; H335

Activator

Hazardous Ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard pictogram(s) and Hazard statement(s)
Reaction product of epichlorohydrin and bisphenol A	10-30	25085-99-8	None assigned	None assigned	GHS07, Skin Irrit. 2; H315, Skin Sens. 1; H317, Eye Irrit. 2; H319 GHS09, Aquatic Chronic 2; H411
Dibenzoyl peroxide	10-30	94-36-0	202-327-6	01-2119511472-50-0000	GHS02, Org. Perox. B; H241, GHS07, Eye Irrit. 2; H319, Skin Sens. 1; H317
Methyl methacrylate polymer with 1,3 butadiene and styrene	10-30	25053-09-2	None assigned	None assigned	GHS07, Skin Irrit. 2; H315, Eye Irrit. 2; H319, STOT SE 3; H335

3.3 Additional Information

For full text of H/P Statements see section 16.

4. SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

Skin Contact

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention.

Eye Contact

IF IN EYES: 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.

Ingestion

IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.



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|------------|---|---|
| 4.2 | Most important symptoms and effects, both acute and delayed | None anticipated. |
| 4.3 | Indication of any immediate medical attention and special treatment needed | Unlikely to be required but if necessary treat symptomatically. |

5. SECTION 5: FIRE-FIGHTING MEASURES

- | | | |
|------------|--|---|
| 5.1 | Extinguishing Media
Suitable Extinguishing Media

Unsuitable Extinguishing Media | In case of fire: Use water spray, foam, dry powder or CO2 to extinguish.
Do not use water jet. |
| 5.2 | Special hazards arising from the substance or mixture | Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback.
Decomposes in a fire giving off toxic fumes: Oxides of carbon. |
| 5.3 | Advice for fire-fighters | Fire fighters should wear complete protective clothing including self-contained breathing apparatus. If it is safe to do so, containers should be removed from fire area because they are likely to rupture under fire conditions.
Keep containers cool by spraying with water if exposed to fire. |

6. SECTION 6: ACCIDENTAL RELEASE MEASURES

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|------------|--|--|
| 6.1 | Personal precautions, protective equipment and emergency procedures | Ensure adequate ventilation. Do not breathe vapour. Avoid contact with skin and eyes. Wear protective gloves/ protective clothing/eye protection/face protection. Do not eat, drink or smoke at the work place. Contaminated work clothing should not be allowed out of the workplace. Wash hands thoroughly after handling. |
| 6.2 | Environmental precautions | Avoid release to the environment. |
| 6.3 | Methods and material for containment and cleaning up | Cover spills with inert absorbent material. Collect spillage. Transfer to a container for disposal. |
| 6.4 | Reference to other sections | See Also Section: 8, 13 |

7. SECTION 7: HANDLING AND STORAGE

- | | | |
|------------|--|--|
| 7.1 | Precautions for safe handling | Use only outdoors or in a well-ventilated area. Do not breathe vapour. Avoid contact with skin and eyes. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/protective clothing/eye protection/face protection. Take off contaminated clothing and wash it before reuse. |
| 7.2 | Conditions for safe storage, including any incompatibilities
Storage temperature

Storage life
Incompatible materials | Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.
Ambient.
Activator: 0 – 40°C
Stable under normal conditions.
Strong oxidising agents, Strongly acidic, Strongly alkaline, Strong reducing agent. |
| 7.3 | Specific end use(s) | Two component acrylic adhesive. |

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8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

Adhesive

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note
Methyl methacrylate	80-62-6	50	208	100	416	WEL
Methacrylic acid	79-41-4	20	72	40	143	WEL

Activator

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note
Dibenzoyl peroxide	94-36-0	-	5	-	-	WEL

Source:

WEL: Workplace Exposure Limit (UK HSE EH40)

8.1.2 Biological limit value

Not established.

8.1.3 PNECs and DNELs

Not established.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Provide adequate ventilation. Local exhaust recommended.

8.2.2 Personal protection equipment

Eye/face protection

Wear protective eye glasses for protection against liquid splashes.



Skin protection (Hand protection/ Other)

Wear: Plastic or rubber gloves, Impervious gloves (EN 374).



Respiratory protection

Wear suitable respiratory protective equipment if exposure to levels above the occupational exposure limit is likely.



Thermal hazards

Not applicable.

8.2.3 Environmental exposure controls

Avoid release to the environment.

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance
Colour
Odour
Odour Threshold
pH
Melting Point/Freezing Point
Initial boiling point and boiling range
Flash point
Evaporation rate (Butyl acetate = 1)

Adhesive

Paste.
White/Off-white.
Slight Pungent.
Not established.
6 – 7 (Concentrated @ 20°C)
-47.7°C
101°C
10°C
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Activator

Viscous liquid.
Blue/Off-white.
Slight Odour.
Not established.
Not available.
Not available.
Not available.
Not available.



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Flammability (solid, gas)	Not applicable.	Not applicable.
Upper/lower flammability or explosive limits	1.7 – 12.5	Not available.
Vapour pressure	Not available.	Not available.
Vapour density	Not available.	Not available.
Relative density	0.96 @ 25°C	1.0 – 1.25
Solubility (Water)	Slightly soluble.	Slightly soluble.
Partition coefficient: n-octanol/water	Not available.	Not available.
Auto-ignition temperature	Not available.	Not available.
Decomposition Temperature	Not available.	Not available.
Viscosity	1000 – 1250 P @ 25°C	Not available.
Explosive properties	Not explosive.	Not explosive.
Oxidising properties	Not oxidising.	Not oxidising.
9.2 Other information	None.	
VOC Content		< 50 g/l

10. SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	Stable under normal conditions.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	No hazardous reactions known if used for its intended purpose.
10.4 Conditions to avoid	Heat and direct sunlight.
10.5 Incompatible materials	Strong oxidising agents, Strongly acidic, Strongly alkaline, Strong reducing agent.
10.6 Hazardous Decomposition Product(s)	No hazardous decomposition products known.

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects	
Acute toxicity	Low acute toxicity.
Skin corrosion/irritation	Causes severe skin burns. No data.
Serious eye damage/irritation	Causes serious eye damage. No data.
Respiratory or skin sensitisation	May cause an allergic skin reaction. No data.
Germ cell mutagenicity	There is no evidence of mutagenic potential.
Carcinogenicity	No evidence of carcinogenicity.
Reproductive toxicity	Not classified.
STOT - single exposure	May cause respiratory irritation. No data.
STOT - repeated exposure	None anticipated.
Aspiration hazard	Not classified.
11.2 Other information	None.

12. SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity	Toxic to aquatic life with long lasting effects.
12.2 Persistence and degradability	Part of the components are biodegradable. Methyl methacrylate: Biological Oxygen Demand (BOD 5 DAY): 0.14 – 0.9 g/g
12.3 Bioaccumulative potential	The product has low potential for bioaccumulation.
12.4 Mobility in soil	Practically insoluble. The product is predicted to have low mobility in soil.
12.5 Results of PBT and VPvB assessment	Not classified as PBT or vPvB.
12.6 Other adverse effects	None anticipated.



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13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods	Dispose of contents/container to: Suitable refuse site.
13.2 Additional Information	Disposal should be in accordance with local, state or national legislation.
Waste code	08 04 09 (Adhesive).

14. SECTION 14: TRANSPORT INFORMATION

14.1 UN number	ADR/RID/IMDG/ICAO	UN 1133
14.2 UN Proper Shipping Name	ADR/RID/IMDG/ICAO/ADN	ADHESIVES.
14.3 Transport hazard class(es)	ADR/RID/IMDG/ICAO	3
14.4 Packing Group	ADR/RID/IMDG/ICAO	II
14.5 Environmental hazards		Not classified as a Marine Pollutant.
14.6 Special precautions for user	EmS	F-E, S-D
	Emergency Action Code	•3YE
	Hazard Identification Number	33
	Tunnel Restriction Code	D/E
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code		Not applicable.
14.8 Additional Information		None.

15. SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	
15.1.1 EU regulations	
Authorisations and/or restrictions on use	
Candidate List of Substances of Very High Concern for Authorisation	All chemicals are not listed.
REACH: ANNEX XIV List of substances subject to authorisation	All chemicals are not listed.
REACH: Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	All chemicals are not listed.
Community Rolling Action Plan (CoRAP)	Adhesive: Listed Methyl methacrylate (CAS No.: 80-62-6), Activator: All chemicals are not listed.
15.1.2 National regulations	
Wassergefährdungsklasse (Germany)	Water hazard class: 1 (low hazard to waters).
15.2 Chemical Safety Assessment	Not applicable.



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16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
STOT	Specific Target Organ Toxicity
PBT	Persistent, Bioaccumulative and Toxic
vPvB	very Persistent and very Bioaccumulative
ADR	Accord européen en relatif au transport international des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID	Regulations Concerning the International Carriage of Dangerous Goods by Rail
IMDG	International Maritime Code for Dangerous Goods
ICAO	International Civil Aviation Organization
ADN	Accord européen en relative au transport international des marchandises Dangereuses par voies de Navigation interieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
Flam. Liq. 2	Flammable liquids Category 2
Org. Perox. B	Organic peroxides Type B
Acute Tox. 4	Acute toxicity Category 4
Skin Corr. 1A	Skin corrosion/irritation Category 1A
Skin Irrit. 2	Skin corrosion/irritation Category 2
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Skin Sens. 1	Respiratory or skin sensitisation Category 1
STOT SE 3	Specific target organ toxicity — single exposure Category 3
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Category 2

Hazard Statement(s) and Precautionary Statement(s)

H225	Highly flammable liquid and vapour.
H241	Heating may cause a fire or explosion.
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.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H411	Toxic to aquatic life with long lasting effects.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P310	Immediately call a POISON CENTER/doctor.
P312	Call a POISON CENTER/doctor if you feel unwell.
P337+P313	If eye irritation persists: Get medical advice/attention.
P370+P378	In case of fire: Use water spray, foam, dry powder or CO2 to extinguish.
P391	Collect spillage.

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P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of contents/container to: Suitable refuse site.

Hazard Pictogram(s)

GHS02



GHS05



GHS07



GHS09

**Disclaimers**

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose.

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Annex to the extended Safety Data Sheet (eSDS)

Not applicable.