CB200 Accelerator
SAFETY DATA SHEET
ACCORDING TO US CFR 1910.1200

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

1.1 Product identifier

Product Name	CB200 Accelerator.
CAS No.	Mixture.

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	+1 (775) 885 8000
E-Mail (competent person)	Glenn.Hutt@clickbond.com

1.4 Emergency telephone number

ChemTel emergency telephone number	1+ (813) 248-0573

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

US CFR 1910.1200

Org. Perox. E :Heating may cause a fire.
Skin Irrit. 2 :Causes skin irritation.
Skin Sens. 1 :May cause an allergic skin reaction.
Eye Irrit. 2A :Causes serious eye irritation.

2.2 Label elements

Product name: CB200 Accelerator.

Contains: bis-4-(2,3-epoxipropoxi)phenylpropane, Dibenzoyl peroxide

Hazard pictogram(s):

GHS02 GHS07

Signal word(s): Warning.

Hazard statement(s):
H242: Heating may cause a fire.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.

Precautionary statement(s):
P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P261: Avoid breathing vapors.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352: IF ON SKIN: Wash with plenty of water.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P370+P378: In case of fire: Use foam, dry chemicals, sand, dolomite, carbon dioxide, water spray, fog or mist to extinguish.

2.3 Other hazards

Contains epoxy constituents. May produce an allergic reaction.

2.4 Additional Information

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

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable.

3.2 Mixtures

Hazardous ingredient(s)	CAS No.	%W/W	Hazard statement(s)	Hazard Pictogram(s)
bis-4-(2,3-epoxipropoxi)phenylpropane	1675-54-3	40-45	Skin Irrit. 2 H315 Skin Sens. 1 H317 Eye Irrit. 2A H319	GHS07
Benzoic acid, C9-11-branched alkyl esters	131298-44-7	20-25	Acute Tox. 4 H332	GHS07
Dibenzoyl peroxide	94-36-0	20-25	Org. Perox. B H241 Skin Sens. 1 H317 Eye Irrit. 2A H319	GHS01 GHS07
Alcohols, C12-15, ethoxylated propoxylated	68551-13-3	<1	Eye Dam. 1 H318	GHS05

3.3 Additional Information

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

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

Skin Contact: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention.

Eye Contact: 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: Wash out mouth with water. If symptoms develop, obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

May cause allergic contact eczema. Already sensitized persons to epoxy may react on very small doses.

4.3 Indication of any immediate medical attention and special treatment needed

Unlikely to be required but if necessary treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1	**Extinguishing Media**	
	Suitable extinguishing media	In case of fire: Use water spray, foam, dry powder or CO_2 to extinguish.
	Unsuitable extinguishing media	None known.
5.2	**Special hazards arising from the substance or mixture**	Heating may cause a fire. Decomposes in a fire giving off toxic fumes: Oxides of nitrogen, Carbon monoxide, Carbon dioxide. Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback.
5.3	**Advice for firefighters**	Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Water spray should be used to cool containers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1	**Personal precautions, protective equipment and emergency procedures**	Ensure adequate ventilation. Eliminate sources of ignition. Do not breathe vapour. Wear protective gloves/ protective clothing/eye protection/face protection. Use only non-sparking tools. Do not eat, drink or smoke when using this product. 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

SECTION 7: HANDLING AND STORAGE

7.1	**Precautions for safe handling**	Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep/Store away from clothing/combustible materials. Keep only in original packaging. Avoid breathing vapors. Wear protective gloves/ protective clothing/eye protection/face protection. Avoid contact with skin and eyes. Take off contaminated clothing and wash it before reuse.
7.2	**Conditions for safe storage, including any incompatibilities**	Protect from sunlight. Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store separately.
	Storage temperature	Stable under normal conditions.
	Storage life	Stable under normal conditions.
	Incompatible materials	Accelerator incompatible with clothing/organic materials/ combustible materials.
7.3	**Specific end use(s)**	Two component acrylic adhesive.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
Dibenzoyl peroxide	94-36-0		5			ACGIH TLV, A4
Dibenzoyl peroxide	94-36-0		5			NIOSH REL Z-1
Dibenzoyl peroxide	94-36-0		5			OSHA PEL
Dibenzoyl peroxide	94-36-0		5			OSHA PEL Z-1

CB200 Accelerator

Remarks	Notes
ACGIH TLV	The American Conference of Governmental Industrial Hygienists (ACGIH®) Threshold Limit Values (TLVs®) 2020
A4	Not Classifiable as a Human Carcinogen
NIOSH REL Z-1	National Institute for Occupational Safety and Health (NIOSH) Recommended Exposure Limits (RELs) from the NIOSH Pocket Guide to Chemical Hazards table Z-1: Up to 10-hour time weighted average (TWA) during a 40-hour work week
OSHA PEL	Occupational Safety and Health (Cal/OSHA) Permissible Exposure Limits (PELs).
OSHA PEL Z-1	Occupational Safety and Health Administration (OSHA) Permissible Exposure Limit (PEL) from 29 CFR 1910.1000 Z-1 Table

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 eyewear (goggles, face shield, or safety glasses).

Skin protection (Hand protection/ Other)

Where hand contact with the product may occur, the use of gloves made from the following materials may provide suitable chemical protection: Nitrile rubber.

For short-term/splash protection we recommend nitrile disposable gloves in the 0,20 – 0,35 mm thickness range with a minimum of >30min break-through times.

For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for >480 minutes, such as 2,7mm thickness North Silver Shield.

Lower breakthrough time may be acceptable if appropriate glove maintenance and replacement regimes are rigorously followed. Glove thickness is not a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material. Suitability and durability of a glove is dependent on usage (= frequency and duration of contact), chemical resistance of glove material, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly.

Respiratory protection

Wear suitable respiratory protective equipment if exposure to levels above the occupational exposure limit is likely. Wear: A respirator fitted with the following cartridge: Organic vapour filter; Gas filtering respirator.

Thermal hazards

Not applicable.

CB200 Accelerator

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Paste.
Color	White/Off-white.
Odor	Odorless.
Odor Threshold	Not determined.
pH	Not applicable.
Melting Point/Freezing Point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	>93°C (>199.4°F)
Evaporation rate	Not applicable.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	1.2 @ 20°C (68°F)
Solubility (Water)	Insoluble.
Solubility (Other)	Not available.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	Not available.
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

9.2 Other information

Volatile Organic Compound Content (%): <1

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**	Accelerator incompatible with clothing/organic materials/ combustible materials.
10.6	**Hazardous decomposition products**	No hazardous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Oral	Low oral toxicity.
Dermal	Low acute toxicity.
Inhalation	Low acute toxicity.
Skin corrosion/irritation	Causes skin irritation. No data.
Serious eye damage/irritation	Causes serious eye irritation. No data.
Respiratory or skin sensitization	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	No evidence of reproductive effects.
STOT - single exposure	None anticipated.
STOT - repeated exposure	None anticipated.
Aspiration hazard	Not classified.

11.2	**Other information**	None.

SECTION 12: ECOLOGICAL INFORMATION

12.1	**Toxicity**	Very toxic to aquatic life with long lasting effects. No data.
12.2	**Persistence and degradability**	Part of the components are biodegradable.
12.3	**Bioaccumulative potential**	The product has low potential for bioaccumulation.
12.4	**Mobility in soil**	Insoluble in water. The product is predicted to have low mobility in soil.
12.5	**Other adverse effects**	None anticipated.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1	**Waste treatment methods**	Do not allow to enter drains, sewers or watercourses. Dispose of this material and its container as hazardous waste. Low hazard once fully cured. Dispose of contents/container to: Suitable refuse site.
13.2	**Additional Information**	Disposal should be in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

The Accelerator itself is assigned with UN 3108. This product is supplied or shipped as part of two component acrylic adhesive kits under UN 3269 POLYESTER RESIN KIT

14.1	**UN number**	
	ADR UN No.	UN3269
14.2	**UN Proper Shipping Name**	
	Proper Shipping Name (ADR)	POLYESTER RESIN KIT.
14.3	**Transport hazard class(es)**	
14.3.1	ADR/RID Class	3
14.3.2	IMDG Class	3
14.3.3	IMDG EMS	F-E, S-D
	Stowage and Handling	Category B
14.3.4	ICAO/IATA	
	Excepted Quantities	E0
	Passenger and Cargo Aircraft Limited Quantities Packing Instructions	Y370
	Passenger and Cargo Aircraft Limited Quantities Max net Qty	1kg
	Passenger and Cargo Aircraft Packing Instructions	370
	Passenger and Cargo Aircraft Max net Qty	5Kg
	Cargo Aircraft Packing Instructions	370
	Cargo Aircraft Max net Qty	5kg
	Special Provisions	A66, A163
	Emergency Response Guidebook (ERG) Code	3L
	ADR Classification Code	F3
	ADR HIN	Not applicable
	ADR Transport Category	2
	Tunnel Restriction Code	E
	Emergency Action Code	•2YE
	Advice on Additional Personal Protection (APP)	Not applicable

14.4	**Packing Group**	
14.4.1	Packing group	II
14.4.2	Labels	3 
14.4.3	Special Provisions	236 340
14.4.4	Limited Quantities	5 L
14.4.5	Excepted Quantities	E0
14.4.6	Mixed Packing Instructions for Packages	P302 R001
14.4.7	Special Packing Provisions for Packages	Not applicable.
14.4.8	Mixed Packing Instructions for Packages	Not applicable.
14.5	**Environmental hazards**	Classified as a Marine Pollutant.
14.6	**Special precautions for user**	None known.
14.7	**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.
14.7.1	Packing Instructions for Portable Tanks	Not applicable.
14.7.2	Special Provisions for Portable Tanks	Not applicable.
14.7.3	Tank Code for Tanks	Not applicable.
14.7.4	Special Provisions for Tanks	Not applicable.
14.7.5	Vehicle for Tank Carriage	Not applicable.
14.7.6	Special Provisions for Carriage - Packages	Not applicable.
14.7.7	Special Provisions for Carriage - Bulk	Not applicable.
14.7.8	Special Provisions for Carriage - Loading, Unloading and Handling	Not applicable.
14.7.9	Special Provisions for Carriage - Operation	S2 S20

SECTION 15: REGULATORY INFORMATION

15.1	**US Federal Regulations**	
	Toxic and hazardous substances (29 CFR 1910; Subpart Z)	Listed: 94-36-0
	National emission standards for hazardous air pollutants (40 CFR 61.01)	Not listed
	SARA Title III Section 313	Not listed
	TSCA (Toxic Substance Control Act)	Listed: 1675-54-3 (Active), 131298-44-7 (Active), 68551-13-3 (Active), 94-36-0 (Active)
	CAA 602 - Ozone Depleting Substances (ODS)	Not listed
15.2	**US State Regulations - State Right to Know Lists**	
	Proposition 65 (California)	Not listed
	Minnesota	Listed: 94-36-0
	New Jersey	Listed: 94-36-0
	Pennsylvania	Listed: 94-36-0
	Rhode Island	Listed: 94-36-0
15.3	**Other**	
	OSPAR List of Chemicals for Priority Action	Not listed
	OSHA (List of Highly Hazardous Chemicals, Toxics and Reactives)	Listed : 94-36-0
	NTP (National Toxicology Program)	Not listed
	IARC (International Agency for Research on Cancer)	Listed : 1675-54-3, 94-36-0

CB200 Accelerator

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 9.1

LEGEND

Hazard Pictogram(s)

GHS02

GHS07

GHS01: GHS: Exploding bomb
GHS05: GHS: Corrosion

Hazard classification

Org. Perox. B: Organic peroxide, Category B
Org. Perox. E: Organic peroxide, Category E
Acute Tox. 4: Acute toxicity, Category 4
Skin Irrit. 2: Skin corrosion/irritation, Category 2
Eye Dam. 1 : Serious eye damage/irritation, Category 1
Eye Irrit. 2A: Serious eye damage/irritation, Category 2A
Skin Sens. 1: Respiratory/skin sensitization, Category 1

Hazard Statement(s)

H241: Heating may cause a fire or explosion.
H242: Heating may cause a fire.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H318: Causes serious eye damage.
H319: Causes serious eye irritation.
H332: Harmful if inhaled.

Precautionary Statement(s)

P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P220: Keep/Store away from clothing/combustible materials.
P234: Keep only in original packaging.
P261: Avoid breathing vapors.
P264: Wash hands and exposed skin thoroughly after handling.
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.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
P337+P313: If eye irritation persists: Get medical advice/attention.
P362+P364: Take off contaminated clothing and wash it before reuse.
P410: Protect from sunlight.
P420: Store separately.
P501: Dispose of contents in accordance with local, state or national legislation.

Acronyms

ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS : Chemical Abstracts Service
IATA : International Air Transport Association
IBC : Intermediate Bulk Container
ICAO : International Civil Aviation Organization
IMDG : International Maritime Dangerous Goods
LTEL : Long term exposure limit

CB200 Accelerator

RID : Regulations concerning the International Carriage of Dangerous Goods by Rail
STEL : Short term exposure limit
STOT : Specific Target Organ Toxicity
UN : United Nations

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.
Click Bond, Inc. gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law.
Click Bond, Inc. accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.

CB200 Adhesive
SAFETY DATA SHEET
ACCORDING TO US CFR 1910.1200

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

1.1 Product identifier

Product Name	CB200 Adhesive.
CAS No.	Mixture.

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

Identified use(s)	Two component epoxy 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	+1 (775) 885 8000
E-Mail (competent person)	Glenn.Hutt@clickbond.com

1.4 Emergency telephone number

ChemTel	1+ (813) 248-0573

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

US CFR 1910.1200

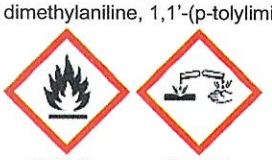
Flam. Liq. 2 :Highly flammable liquid and vapor.
Acute Tox. 4 :Harmful if swallowed.
Skin Corr. 1A :Causes severe skin burns and eye damage.
Skin Sens. 1 :May cause an allergic skin reaction.
Eye Dam. 1 :Causes serious eye damage.
STOT SE 3 :May cause respiratory irritation.
Carc. 2 :Suspected of causing cancer.

2.2 Label elements

Product name: CB200 Adhesive.

Contains: Methyl methacrylate, Methacrylic acid, N,N-dimethylaniline, 1,1'-(p-tolylimino) dipropan-2-ol

Hazard pictogram(s)



GHS02 GHS05

GHS07 GHS08

Signal word(s): Danger.

Hazard statement(s):
H225: Highly flammable liquid and vapor.
H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H317: May cause an allergic skin reaction.

	Precautionary statement(s)	H335: May cause respiratory irritation. H351: Suspected of causing cancer. P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P260: Do not breathe vapor. P280: Wear protective gloves/protective clothing/eye protection/face protection. P301+P310: 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. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
2.3	**Other hazards**	None.
2.4	**Additional Information**	For full text of H/P Statements see section 16.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances
Not applicable.

3.2 Mixtures

Hazardous Ingredient(s)	CAS No.	%W/W	Hazard statement(s)	Hazard Pictogram(s)
Methyl methacrylate	80-62-6	50-55	Flam. Liq. 2 H225 Skin Irrit. 2 H315 Skin Sens. 1 H317 STOT SE 3 H335	GHS02 GHS07
Methacrylic acid	79-41-4	5-10	Flam. Liq. 4 H227 Acute Tox. 4 H302 Acute Tox. 3 H311 Skin Corr. 1A H314 Eye Dam. 1 H318 Acute Tox. 4 H332 STOT SE 3 H335	GHS06 GHS05 GHS07
N,N-dimethylaniline	121-69-7	1-5	Flam. Liq. 4 H227 Acute Tox. 3 H301 Acute Tox. 3 H311 Eye Irrit. 2B H320 Acute Tox. 3 H331 Carc. 2 H351	GHS06 GHS08
Reaction products of 2-hydroxyethyl methacrylate and diphosphorous pentoxide and water	None	1-5	Skin Corr. 1A H314 Eye Dam. 1 H318	GHS05
1,1'-(p-tolylimino) dipropan-2-ol	38668-48-3	1-5	Acute Tox. 2 H300 Eye Irrit. 2A H319	GHS06 GHS07
Zinc oxide	1314-13-2	<1	None	None
2-hydroxyethyl methacrylate	868-77-9	<1	Skin Irrit. 2 H315 Skin Sens. 1 H317 Eye Irrit. 2A H319	GHS07

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

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation	Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
Skin Contact	Take off immediately all contaminated clothing. Rinse skin with water. If skin irritation or rash occurs: Get medical advice/attention.
Eye Contact	If eye contact with adhesive, rinse eyes for at least 15-30 minutes. Transport to hospital or eye specialist while continuing rinsing the eyes during transportation.
Ingestion	Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

4.2 Most important symptoms and effects, both acute and delayed
May cause allergic contact eczema. Already sensitized persons to epoxy may react on very small doses. Causes burns to skin, eyes, respiratory system and gastrointestinal tract.

4.3 Indication of any immediate medical attention and special treatment needed
IF exposed or concerned: Get medical advice/attention.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing Media

Suitable extinguishing media	In case of fire: Use water spray, foam, dry powder or CO_2 to extinguish.
Unsuitable extinguishing media	None known.

5.2 Special hazards arising from the substance or mixture
Highly flammable liquid and vapor. Decomposes in a fire giving off toxic fumes: Oxides of nitrogen, Carbon monoxide, Carbon dioxide. Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback.

5.3 Advice for firefighters
Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Water spray should be used to cool containers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation. Eliminate sources of ignition. Do not breathe vapour. Wear protective gloves/ protective clothing/eye protection/face protection. Use only non-sparking tools. Do not eat, drink or smoke when using this product. 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

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use non-sparking tools. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Wear protective gloves/ protective clothing/eye protection/face protection. Take off contaminated clothing and wash it before reuse. Wash hands thoroughly after handling. Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product. Already sensitized persons to epoxy should not work with the product.

7.2 Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place. Keep cool. Protect from sunlight. Keep container tightly closed. Store locked up.

Storage temperature: Stable under normal conditions.

Storage life: Stable under normal conditions.

Incompatible materials: Inorganic acids, organic acids, caustics, oxidizing agents, peroxides, amines, water, hydroxyl, or active hydrogen compounds.

7.3 Specific end use(s)

Two component acrylic adhesive.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
Methyl methacrylate	80-62-6	50		100		ACGIH TLV, DSEN, A4
Methyl methacrylate	80-62-6	100				NIOSH REL Z-1
Methyl methacrylate	80-62-6	50	205	100	410	OSHA PEL
Methyl methacrylate	80-62-6	100	410			OSHA PEL Z-1
Methacrylic acid	79-41-4	20				ACGIH TLV
Methacrylic acid	79-41-4	20	70			OSHA PEL, S
N,N-dimethylaniline	121-69-7	5		10		ACGIH TLV, Skin, A4
N,N-dimethylaniline (Aniline and homologs)	121-69-7					NIOSH REL Z-1, Ca
N,N-dimethylaniline	121-69-7	5		10		NIOSH REL Z-1
N,N-dimethylaniline	121-69-7	5	25	10	50	OSHA PEL, S
N,N-dimethylaniline (Aniline and homologs)	121-69-7	5	19			OSHA PEL Z-1
N,N-dimethylaniline	121-69-7	5	25			OSHA PEL Z-1
Zinc oxide	1314-13-2		2		10	ACGIH TLV, R
Zinc oxide (Fume)	1314-13-2		5		10	NIOSH REL Z-1
Zinc oxide (Total Dust)	1314-13-2		5			NIOSH REL Z-1, C = 15mg/m³
Zinc oxide (Fume)	1314-13-2		5		10	OSHA PEL
Zinc oxide (Fume)	1314-13-2		5			OSHA PEL Z-1
Zinc oxide (Total Dust)	1314-13-2		15			OSHA PEL Z-1
Zinc oxide (Respirable fraction)	1314-13-2		5			OSHA PEL Z-1

Remarks	Notes
ACGIH TLV	The American Conference of Governmental Industrial Hygienists (ACGIH®) Threshold Limit Values (TLVs®) 2020
DSEN	May cause dermal sensitization
A4	Not Classifiable as a Human Carcinogen
NIOSH REL Z-1	National Institute for Occupational Safety and Health (NIOSH) Recommended Exposure Limits (RELs) from the NIOSH Pocket Guide to Chemical Hazards table Z-1: Up to 10-hour time weighted average (TWA) during a 40-hour work week
OSHA PEL	Occupational Safety and Health (Cal/OSHA) Permissible Exposure Limits (PELs).
OSHA PEL Z-1	Occupational Safety and Health Administration (OSHA) Permissible Exposure Limit (PEL) from 29 CFR 1910.1000 Z-1 Table
S	Skin Sensitization
Skin	Danger of cutaneous absorption
Ca	Potential occupational carcinogen
R	Respirable particulate matter
C = 15mg/m^3	Ceiling limit of 15mg/m^3

Biological Exposure Indices						
SUBSTANCE	CAS No.	Sampling	Tissues	Control parameters	Biological monitoring guidance value	Comments
Methemoglobin Inducers	121-69-7	During or end of shift	blood	Methemoglobin	1.5% of hemoglobin	B, Ns, Sq, z
Methemoglobin Inducers	121-69-7	During or end of shift	blood	Methemoglobin	5% of hemoglobin	B, Ns, NIC, x

Remarks	Notes
B	Background
NIC	Notice of Intended Changes
Ns	Nonspecific
Sq	Semiquantitative
x	2020 Revision or Addition to the Notice of Intended Changes
z	See Notice of Intended Changes (NIC).

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)

Where hand contact with the product may occur, the use of gloves made from the following materials may provide suitable chemical protection: Nitrile rubber.

For short-term/splash protection we recommend nitrile disposable gloves in the 0,20 – 0,35 mm thickness range with a minimum of >30min break-through times.

For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for >480 minutes, such as 2,7mm thickness North Silver Shield.

	Lower breakthrough time may be acceptable if appropriate glove maintenance and replacement regimes are rigorously followed. Glove thickness is not a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material. Suitability and durability of a glove is dependent on usage (= frequency and duration of contact), chemical resistance of glove material, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly.
Respiratory protection 	Wear suitable respiratory protective equipment if exposure to levels above the occupational exposure limit is likely. Wear: A respirator fitted with the following cartridge: Organic vapour filter; Gas filtering respirator.
Thermal hazards	Not applicable.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Liquid.
Color	White/Off-white.
Odor	Sweet.
Odor Threshold	Not determined.
pH	Not applicable.
Melting Point/Freezing Point	Not available.
Initial boiling point and boiling range	Not applicable.
Flash point	18°C (65°F) [Closed cup].
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	1.02-1.04 @ 20°C (68°F)
Solubility (Water)	Insoluble.
Solubility (Other)	Not available.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	15k - 55k mPa•s @ 25°C (77°F)
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

9.2 Other information

Volatile Organic Compound Content (%):	<1

CB200 Adhesive

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**	Inorganic acids, organic acids, caustics, oxidizing agents, peroxides, amines, water, hydroxyl, or active hydrogen compounds.
10.6	**Hazardous decomposition products**	No hazardous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 **Information on toxicological effects**

Acute toxicity

Oral	Harmful if swallowed. Calculated acute toxicity estimate (ATE): 1506.77 mg/kg
Dermal	Low acute toxicity. Calculated acute toxicity estimate (ATE): 4717.03 mg/kg
Inhalation	Low acute toxicity. Calculated acute toxicity estimate (ATE): 167.17 mg/l
Skin corrosion/irritation	Causes severe skin burns. No data.
Serious eye damage/irritation	Causes serious eye damage. No data.
Respiratory or skin sensitization	May cause an allergic skin reaction. No data.
Germ cell mutagenicity	There is no evidence of mutagenic potential.
Carcinogenicity	Suspected of causing cancer. No data.
Reproductive toxicity	No evidence of reproductive effects.
STOT - single exposure	May cause respiratory irritation. No data.
STOT - repeated exposure	None anticipated.
Aspiration hazard	Not classified.

11.2 **Other information** None.

SECTION 12: ECOLOGICAL INFORMATION

12.1	**Toxicity**	Harmful to aquatic life with long lasting effects. No data.
12.2	**Persistence and degradability**	Part of the components are biodegradable.
12.3	**Bioaccumulative potential**	The product has low potential for bioaccumulation.
12.4	**Mobility in soil**	Insoluble in water. The product is predicted to have low mobility in soil.
12.5	**Other adverse effects**	None anticipated.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1	**Waste treatment methods**	Do not allow to enter drains, sewers or watercourses. Dispose of this material and its container as hazardous waste. Low hazard once fully cured. Dispose of contents/container to: Suitable refuse site.
13.2	**Additional Information**	Disposal should be in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

The Adhesive itself is assigned with UN 1133. This product is supplied or shipped as part of two component acrylic adhesive kits under UN 3269 POLYESTER RESIN KIT

14.1	**UN number**	
	ADR UN No.	UN3269
14.2	**UN Proper Shipping Name**	
	Proper Shipping Name (ADR)	POLYESTER RESIN KIT.
14.3	**Transport hazard class(es)**	
14.3.1	ADR/RID Class	3
14.3.2	IMDG Class	3
14.3.3	IMDG EMS	F-E, S-D
	Stowage and Handling	Category B
14.3.4	ICAO/IATA	
	Excepted Quantities	E0
	Passenger and Cargo Aircraft Limited Quantities Packing Instructions	Y370
	Passenger and Cargo Aircraft Limited Quantities Max net Qty	1kg
	Passenger and Cargo Aircraft Packing Instructions	370
	Passenger and Cargo Aircraft Max net Qty	5Kg
	Cargo Aircraft Packing Instructions	370
	Cargo Aircraft Max net Qty	5kg
	Special Provisions	A66, A163
	Emergency Response Guidebook (ERG) Code	3L
	ADR Classification Code	F3
	ADR HIN	Not applicable
	ADR Transport Category	2
	Tunnel Restriction Code	E
	Emergency Action Code	•2YE
	Advice on Additional Personal Protection (APP)	Not applicable
14.4	**Packing Group**	
14.4.1	Packing group	II
14.4.2	Labels	3

14.4.3	Special Provisions	236 340
14.4.4	Limited Quantities	5 L
14.4.5	Excepted Quantities	E0
14.4.6	Mixed Packing Instructions for Packages	P302 R001
14.4.7	Special Packing Provisions for Packages	Not applicable.
14.4.8	Mixed Packing Instructions for Packages	Not applicable.
14.5	**Environmental hazards**	Not classified as a Marine Pollutant.
14.6	**Special precautions for user**	None known.
14.7	**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.
14.7.1	Packing Instructions for Portable Tanks	Not applicable.
14.7.2	Special Provisions for Portable Tanks	Not applicable.
14.7.3	Tank Code for Tanks	Not applicable.
14.7.4	Special Provisions for Tanks	Not applicable.
14.7.5	Vehicle for Tank Carriage	Not applicable.
14.7.6	Special Provisions for Carriage - Packages	Not applicable.
14.7.7	Special Provisions for Carriage - Bulk	Not applicable.

14.7.8	Special Provisions for Carriage - Loading, Unloading and Handling	Not applicable.
14.7.9	Special Provisions for Carriage - Operation	S2 S20

SECTION 15: REGULATORY INFORMATION

15.1 US Federal Regulations

Toxic and hazardous substances (29 CFR 1910; Subpart Z)	Listed: 80-62-6, 121-69-7, 1314-13-2
National emission standards for hazardous air pollutants (40 CFR 61.01)	Listed: 1314-13-2
SARA Title III Section 313	Not listed
TSCA (Toxic Substance Control Act)	Listed: 80-62-6 (Active), 79-41-4 (Active), 121-69-7 (Active), 1314-13-2 (Active), 868-77-9 (Active), 38668-48-3 (Active)
CAA 602 - Ozone Depleting Substances (ODS)	Not listed

15.2 US State Regulations - State Right to Know Lists

Proposition 65 (California)	Not listed
Minnesota	Listed : 80-62-6, 79-41-4, 121-69-7, 1314-13-2
New Jersey	Listed : 80-62-6, 79-41-4, 121-69-7, 1314-13-2
Pennsylvania	Listed : 80-62-6, 79-41-4, 121-69-7, 1314-13-2
Rhode Island	Listed : 80-62-6, 79-41-4, 121-69-7, 1314-13-2

15.3 Other

OSPAR List of Chemicals for Priority Action	Not listed
OSHA (List of Highly Hazardous Chemicals, Toxics and Reactives)	Not listed
NTP (National Toxicology Program)	Not listed
IARC (International Agency for Research on Cancer)	Listed : 80-62-6, 121-69-7

SECTION 16: OTHER INFORMATION

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

LEGEND

Hazard Pictogram(s)

GHS02 GHS05 GHS08 GHS07

Hazard classification

Flam. Liq. 2 : Flammable liquid, Category 2
Flam. Liq. 4 : Flammable liquid, Category 4
Acute Tox. 2 : Acute toxicity, Category 2
Acute Tox. 3 : Acute toxicity, Category 3
Acute Tox. 4 : Acute toxicity, Category 4
Skin Corr. 1A : Skin corrosion/irritation, Category 1A
Skin Irrit. 2 : Skin corrosion/irritation, Category 2
Skin Sens. 1 : Skin sensitization, Category 1
Eye Dam. 1 : Serious eye damage/irritation, Category 1
Eye Irrit. 2A : Serious eye damage/irritation, Category 2A
Eye Irrit. 2B : Serious eye damage/irritation, Category 2B
STOT SE 3 : Specific target organ toxicity — single exposure, Category 3
Carc. 2 : Carcinogenicity, Category 2

CB200 Adhesive

Hazard Statement(s)	H225: Highly flammable liquid and vapor. H227: Combustible liquid H300: Fatal if swallowed. H301: Toxic if swallowed. H302: Harmful if swallowed. H311: Toxic in contact with skin. 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. H320: Causes eye irritation. H331: Toxic if inhaled. H332: Harmful if inhaled. H335: May cause respiratory irritation. H351: Suspected of causing cancer.
Precautionary Statement(s)	P201: Obtain special instructions before use. P202: Do not handle until all safety precautions have been read and understood. P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P233: Keep container tightly closed. P240: Ground and bond container and receiving equipment. P241: Use explosion-proof electrical/ventilating/lighting/equipment. P242: Use non-sparking tools. P243: Take action to prevent static discharges. P260: Do not breathe vapor. P264: Wash hands and exposed skin 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. P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P302+P352: IF ON SKIN: Wash with plenty of water. P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. 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. P310: Immediately call a POISON CENTER/doctor. P312: Call a POISON CENTER/doctor if you feel unwell. 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. P370+P378: In case of fire: Use foam, dry chemicals, sand, dolomite, carbon dioxide, water spray, fog or mist to extinguish. P403+P235: Store in a well-ventilated place. Keep cool. P405: Store locked up. P501: Dispose of contents in accordance with local, state or national legislation.
Acronyms	ADR : European Agreement concerning the International Carriage of Dangerous

CB200 Adhesive

Goods by Road
CAS : Chemical Abstracts Service
IATA : International Air Transport Association
IBC : Intermediate Bulk Container
ICAO : International Civil Aviation Organization
IMDG : International Maritime Dangerous Goods
LTEL : Long term exposure limit
RID : Regulations concerning the International Carriage of Dangerous Goods by Rail
STEL : Short term exposure limit
STOT : Specific Target Organ Toxicity
UN : United Nations

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