

Click Bond - CB200 Adhesive - Material Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: **CB200**
CLICK BOND, INC.
2151 LOCKHEED WAY
CARSON CITY, NV 89706

Product Use/Class: **ADHESIVE**
INFORMATION TELEPHONE #: (775) 885-8000
EMERGENCY TELEPHONE #: (800) 255-3924 (CHEM•TEL)
OUTSIDE NORTH AMERICA #: (813) 248-0585 CALL COLLECT
PREPARED BY: Engineering Dept. (775) 885-8000

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Chemical Name	CAS Number	Weight % Less Than	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA 100 ppm	OSHA PEL-Ceiling	Skin
B	Methyl methacrylate	80-62-6	49%	50 ppm	100 ppm	410 mg/m ³ 100 ppm	N.E.	N.A.
B	Methacrylic acid	79-41-4	9%	20 ppm	N.E.	N.E.	N.E.	N.A.
B	Methacrylate phosphate ester	Proprietary	5%	N.E.	N.E.	N.E.	N.E.	N.A.
B	N,N-Dimethylaniline	121-69-7	5%	5 ppm	10 ppm	25 mg/m ³ 5 ppm	N.E.	S
B	Amine curative	Proprietary	5%	N.E.	N.E.	N.E.	N.E.	N.A.
B	Calcium molybdate	7789-82-4	1%	3 mg/m ³	N.E.	5 mg/m ³	N.E.	N.A.
A	Epoxy resin	Proprietary	6%	N.E.	N.E.	N.E.	N.E.	N.A.
A	Isodecyl benzoate	131298-44-7	4%	N.E.	N.E.	N.E.	N.E.	N.A.
A	Benzoyl peroxide	94-36-0	4%	5 mg/m ³	N.E.	5 mg/m ³	N.E.	N.A.
A	Titanium dioxide	13463-67-7	1%	10 mg/m ³	N.E.	15 mg/m ³	N.E.	N.A.

N.A. – Not Applicable, N.E. - Not Established, S - Skin Designation

3. HAZARDS IDENTIFICATION

***** EMERGENCY OVERVIEW ***:** Off-white Liquid, with Sweet odor (Component B) and White Paste, with No odor (Component A). Flammable liquid. Harmful if absorbed through skin. May cause allergic skin reaction. Causes skin and eye irritation. Causes respiratory tract irritation.

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Causes eye irritation.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: May be absorbed through the skin in harmful amounts. Causes skin irritation. May cause skin sensitization. May cause dermatitis. May cause allergic skin reaction.

EFFECTS OF OVEREXPOSURE - INHALATION: Causes respiratory tract irritation. May cause headache and nausea.

EFFECTS OF OVEREXPOSURE - INGESTION: Harmful if swallowed. Ingestion is not an expected route of entry in industrial or commercial uses.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: May cause liver or kidney damage. Chronic skin contact may cause dermatitis. Prolonged or repeated contact may result in dermatitis.

IARC has designated titanium dioxide (TiO₂) as Group 2B - possibly carcinogenic to humans in dust form. However, a number of long term animal studies and human epidemiology studies evaluating TiO₂ and workplace exposure show insufficient evidence for carcinogenic effects. EPA, NTP and OSHA do not designate TiO₂ as a carcinogen and ACGIH designates TiO₂ as A4 - not classifiable as a human carcinogen. TiO₂ is not present in this product as a dust and no airborne exposure is expected during application.

Contains N,N-Dimethylaniline. Excessive overexposure by skin absorption or ingestion may result in anoxia due to the formation of methemoglobin. This condition impairs the blood's ability to transport oxygen. ACGIH considers molybdenum to be an A3 carcinogen (confirmed animal carcinogen with unknown relevance in humans).

PRIMARY ROUTE (S) OF ENTRY: Skin Contact, Skin Absorption, Inhalation, Ingestion, Eye Contact

4. FIRST AID MEASURES

FIRST AID - EYE CONTACT: Flush eyes immediately with large amount of water for at least 15 minutes holding eyelids open while flushing. Get prompt medical attention.

FIRST AID - SKIN CONTACT: Flush contaminated skin with large amounts of water while removing contaminated clothing. Wash affected skin areas with soap and water. Get medical attention if symptoms occur.

FIRST AID - INHALATION: Move person to fresh air. Restore and support continued breathing. If breathing is difficult, give oxygen. Get immediate medical attention.

FIRST AID - INGESTION: If swallowed, do not induce vomiting. Give victim one or two glasses of water or milk (Component A only). Call a physician or poison control center immediately for further instructions. Never give anything by mouth if victim is rapidly losing consciousness, unconscious or convulsing.

5. FIRE-FIGHTING MEASURES

Component A:

FLASH POINT: 201°F, 93°C (Setaflash Closed Cup)
AUTOIGNITION TEMPERATURE: N.D.

LOWER EXPLOSIVE LIMIT (%): Not Applicable
UPPER EXPLOSIVE LIMIT (%): Not Applicable

Component B:

FLASH POINT: 65°F, 18°C (Setaflash Closed Cup)
AUTOIGNITION TEMPERATURE: N.D.

LOWER EXPLOSIVE LIMIT (%): 1% (V)
UPPER EXPLOSIVE LIMIT (%): 8.8% (V)

Components A and B:

EXTINGUISHING MEDIA: Carbon Dioxide, Dry Chemical, Foam, Water Fog

UNUSUAL FIRE AND EXPLOSION HAZARDS: Flammable liquid and vapor. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks, open flame, and other sources of ignition. Closed containers may rupture when exposed to extreme heat. Use water spray to keep fire exposed containers cool. During a fire, irritating and/or toxic gases and particulate may be generated by thermal decomposition or combustion.

SPECIAL FIREFIGHTING PROCEDURES: Wear full firefighting protective clothing, including self-contained breathing apparatus (SCBA). If water is used, fog nozzles are preferable.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Keep non-essential personnel a safe distance away from the spill area. Remove all sources of ignition (flame, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Use self-contained breathing equipment. Notify appropriate authorities if necessary. Avoid contact. Using non-sparking tools, scoop the spilled material into an appropriate container for proper disposal. (If necessary, use inert absorbent material to aid in containing the spill.)

7. HANDLING AND STORAGE

HANDLING: Keep closure tight and container upright to prevent leakage. Ground and bond containers when transferring material. Avoid skin and eye contact. Wash thoroughly after handling. Avoid breathing of vapor or spray mists. Do not handle until all safety precautions have been read and understood. Use with adequate ventilation. Because empty containers may retain product residue and flammable vapors, keep away from heat, sparks, and flame; do not cut, puncture, or weld on or near the empty container. Empty containers should not be re-used. Do not smoke where this product is used or stored.

STORAGE: Refer to OSHA 29CFR Part 1910.106 "Flammable and Combustible Liquids" for specific storage requirements. Store only in well-ventilated areas. Keep container closed when not in use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Sufficient ventilation in pattern and volume should be provided in order to maintain air contaminant levels below recommended exposure limits. Sufficient ventilation (using explosion-proof equipment) should be provided to prevent flammable vapor/air mixtures from accumulating.

RESPIRATORY PROTECTION: Contains a small amount of dimethylaniline (DMA) which has poor odor-warning properties. If the exposure limit for DMA is exceeded, an air-supplied respirator is recommended. Otherwise, a properly-fitted NIOSH approved air-purifying organic vapor respirator is recommended. For emergency situations, confined space use, or other conditions where exposure limits may be greatly exceeded, use an approved air-supplied respirator. Observe OSHA regulations (29CFR 1910.134) for respirator use.

SKIN PROTECTION: Use neoprene, nitrile, or rubber gloves to prevent skin contact. If contact with the product is prolonged or repeated, Silver Shield or Butyl rubber gloves are recommended.

EYE PROTECTION: Use safety eyewear including safety glasses with side shields and chemical goggles where splashing may occur.

OTHER PROTECTIVE EQUIPMENT: Use disposable or impervious clothing if work clothing contamination is likely. Remove and wash contaminated clothing before reuse.

HYGIENIC PRACTICES: Wash hands before eating, smoking, or using toilet facility. Food or beverages should not be consumed anywhere this product is handled or stored. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Component A:

DENSITY, LB/GL	: 10.00 lb/gal	VOLATILE BY WEIGHT	: 5.98%	APPEARANCE	: White
VAPOR PRESSURE	: N.D.	VOLATILE BY VOLUME	: 7.45%	PHYSICAL STATE	: Paste
VAPOR DENSITY	: Heavier than Air	BOILING RANGE	: 100°C	ODOR	: No
SOLUBILITY IN H₂O	: Insoluble	FREEZE POINT	: N.D.	ODOR THRESHOLD	: N.D.
EVAPORATION RATE	: Not Applicable			pH	: N.A.
COEFFICIENT OF WATER/OIL DISTRIBUTION	: N.D.				(see section 16 for abbreviation legend)

Component B:

DENSITY, LB/GL	: 8.69 lb/gal	VOLATILE BY WEIGHT	: 0.0%	APPEARANCE	: Off-white
VAPOR PRESSURE	: N.D.	VOLATILE BY VOLUME	: 0.0%	PHYSICAL STATE	: Liquid
VAPOR DENSITY	: Heavier than Air	BOILING RANGE	: N.A.	ODOR	: Sweet
SOLUBILITY IN H₂O	: Insoluble	FREEZE POINT	: N.D.	ODOR THRESHOLD	: N.D.
EVAPORATION RATE	: Faster than n-butyl-acetate			pH	: N.A.
COEFFICIENT OF WATER/OIL DISTRIBUTION	: N.D.				(see section 16 for abbreviation legend)

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Storage above 100°F and below 32°F. Exposure to sunlight, ultraviolet light irradiation. Avoid dropping or puncture of containers. High temperatures.

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

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, oxides of nitrogen, aldehydes.

HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur under normal conditions.

STABILITY: Product is stable under normal storage conditions.

11. TOXICOLOGICAL INFORMATION

PRODUCT LD50 (ORAL): No data

PRODUCT LD50 (DERMAL): No data

PRODUCT LC50: No data

12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: No information

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Disposal should be done in accordance with Federal (40CFR Part 261), state, and local environmental control regulations. If waste is determined to be hazardous, use licensed hazardous waste transporter and disposal facility.

14. TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: Adhesives

DOT UN/NA NUMBER: 1133

PACKING GROUP: II

DOT HAZARD CLASS: 3

EMERGENCY RESPONSE GUIDE NUMBER: 128

SECONDARY HAZARD: None

The listed transportation classification applies to US DOT non-bulk road shipments. It does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptors. For the most accurate shipping information, refer to your transportation/compliance department.

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS: AS FOLLOWS -

This product is considered hazardous as defined by 29 CFR 1910.1200 (OSHA HazCom Standard).

SARA SECTION 313

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Weight % Less Than</u>
Methyl methacrylate	80-62-6	49%
N,N-Dimethylaniline	121-69-7	5%
Benzoyl peroxide	94-36-0	4%

TOXIC SUBSTANCES CONTROL ACT:

INVENTORY STATUS

The chemical substances in this product are on the TSCA Section 8 Inventory.

EXPORT NOTIFICATION

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

NONE

16. OTHER INFORMATION

HMIS RATINGS - HEALTH: 2* **FLAMMABILITY: 3** **PHYSICAL HAZARD: 2**

* - indicates a chronic hazard; see section 3

VOLATILE ORGANIC COMPOUNDS

Calculated 0.0 lbs/gal, 0.0 grams/liter

NOTE: In normal use, the acrylate monomer in this product is considered to be non-volatile and is polymerized during cure. For purposes of air quality regulations, the maximum amount of VOC emitted is less than 5%. Actual emissions are a function of processing conditions. VOC is evaluated in combination with CB200 component A.

LEGEND: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

DISCLAIMER: The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.