

SECTION 1: IDENTIFICATION OF PRODUCT AND COMPANY

Material/Trade Name: **Mighty Bond Xtreme**
Material Type: Cyanoacrylate Adhesive, Instant Adhesive, Super Glue, CA
Company: Republic Chemical Industries, Inc.
Address: 731 Aurora Boulevard, Quezon City, 1112 Philippines
Telephone: +63 2 721 5781 to 86
Fax: +63 2 727 5095
Website: www.repchem.com

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification:	Acute Toxicity – Oral:	Category 5
	Acute Toxicity – Dermal:	Category 5
	Skin Corrosion/Irritation:	Category 2
	Serious Eye Damage/Eye Irritation:	Category 2A
	STOT – Single Exposure:	Category 1
	Aquatic Toxicity – Acute:	Category Not Applicable
	Aquatic Toxicity – Chronic:	Category Not Applicable

Hazard Symbol/ Signal Word:



WARNING

Hazard Statement:

May be harmful if swallowed.
May be harmful in contact with skin.
Causes skin irritation.
Causes serious eye irritation.
May cause respiratory irritation.

CYANOACRYLATE. DANGER. Bonds skin and eyes in seconds. Keep out of the reach of children.

Precautionary Statement:

Prevention:

Avoid breathing fumes/vapors.
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/clothing/eye protection/face protection.

Response:

IF ON SKIN: Wash with plenty of soap and water.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
IF INHALED: Removed victim to fresh air and keep at rest in a position comfortable for breathing.
If skin irritation occurs: Get medical advice/attention.
If eye irritation occurs: Get medical advice/attention.



SAFETY DATA SHEET

Mighty Bond Xtreme

MSDS No. 002
VERSION: 002-02
VERSION DATE: 05/25/11
SUPERSEDES: 10/19/10

SECTION 3: COMPOSITION/INFORMATION OF INGREDIENTS

Chemical Identity	Concentration (%)	CAS no.
Ethyl Cyanoacrylate	90-95	7085-85-0

SECTION 4: FIRST AID MEASURES

- Eye:** Mighty Bond Xtreme bond eyelid in seconds. If bonding to tissue occurs, wash thoroughly with large amounts of warm water for at least 15 minutes. If the eyelid is bonded closed, do not forced to open. Cover the eyes with wet pad. Keep eye covered with wet pad until de-bonding is complete. Cyanoacrylate will bond to eye protein, causing a lachrymatory effect that aids de-bonding.
- Skin:** If bonding occurs, immerse the bonded surfaces in warm soapy water. Peel or roll the surfaces apart using a blunt edge, such as spatula or spoon handle. Do not pull surfaces apart with a direct opposing action. If burns occur, treat as thermal burns. Get medical attention if needed.
- Inhalation:** Removed to fresh air and keep at rest in a position comfortable for breathing. If recovery is not rapid call for prompt medical attention.
- Ingestion:** Wet lips with water. Peel or roll the surfaces apart using a blunt edge, such as a spatula or spoon handle. Do not pull surfaces apart with a direct opposing action. If a lump forms in the mouth, turn head to side. If burns occur, treat as thermal burns. Get medical attention.

SECTION 5: FIRE FIGHTING MEASURES

- Flash Point:** > 81°C (150-200F).
- Extinguishing Media:** Water spray, foam, dry chemical or carbon dioxide.
- Special Fire fighting Procedure:** Fire fighters should wear self-contained breathing apparatus.
- Unusual Fire/Explosion Hazards:** No applicable information found.
- Hazardous thermal Decomposition Products:** Irritating organic vapors may be formed.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Ventilate area of spill; do not use cloths for mopping up. Polymerize with water and scrape off floor. Dispose in accordance with pertinent national legislation.

SECTION 7: HANDLING AND STORAGE

Store between 5-25°C; avoid strong light and heat sources; incompatible with amine, bases, and water. Avoid contact with skin and eyes. Avoid breathing vapor.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- Eye/Face Protection:** Safety goggles/glasses suitable for use with chemicals.
- Respiratory Protection:** Always use appropriate Filter Mask/respirator (NIOSH/MSHA Approved).
- Skin Protection:** Nitrile/polyethylene gloves, coveralls, avoid cotton products.
- Ventilation:** Good general or local exhaust ventilation is required for usage.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Form:	Viscous Liquid	Oxidizing Properties:	None
Color:	Clear, colorless	Vapor Pressure:	0.04 mmHg at 25°C
Odor:	Sharp, irritating	Vapor Density:	Not available
Odor Threshold:	Not available	Relative Density:	0.9 – 1.1
Boiling Point:	185°C	Solubility in Water:	Insoluble, polymerized by water
Melting Point:	-30°C	Solubility in Acetone:	Completely soluble
Flash Point:	81°C	Partition Coefficient:	Not available
Evaporation Rate:	Not available	Auto-ignition Temp.:	Not available
Flammability:	Not flammable	Decomposition Temp.:	Not available
Explosive Properties:	None	Viscosity:	1,000 – 3,000 cps

SECTION 10: STABILITY AND REACTIVITY

Stability	Stable
Hazard Polymerization	Will not occur
Incompatibility	Polymerized by contact with amines, alkalis, water and alcohol
Hazardous Decomposition Products (non-thermal)	No applicable information found

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity:	
<i>Oral:</i>	LD50(rat) likely to be >3,000 mg/kg. Product is almost impossible to swallow due to polymerization in the mouth.
<i>Dermal:</i>	LD50(rabbit) estimated to be >3,000 mg/kg. Rapid polymerization in contact with skin.
Corrosivity/Irritation:	
<i>Eyes:</i>	Causes severe irritation. Conjunctival irritation and temporary corneal injury is possible. Profuse eye watering and redness.
<i>Skin:</i>	Irritation and redness at site of contact. Prolonged or repeated contact may lead to itching, soreness, blistering & dermatitis
<i>Respiratory Tract:</i>	Causes irritation – also of mucous membranes, nose and throat. Very high concentration can cause nose bleeds.
Sensitization:	No sensitizing effect known.
Mutagenicity:	No adverse results reported.
Carcinogenicity:	No adverse results reported.
Reproductive Toxicity:	No adverse results reported.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: Considered to be very low due to rapid polymerization with water.

SECTION 13: DISPOSAL CONSIDERATIONS

Must not be disposed together with household garbage.
Do not discharge into drains or watercourses.
Polymerize adhesive by adding slowly to water. Hardened product can be disposed of in landfill sites by licensed contractors.
Add water to contaminated packaging and then dispose of.



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SECTION 14: TRANSPORTATION INFORMATION

IATA-DGR UN 3334, Aviation Regulated Liquid, n.o.s. (Cyanoacrylate Ester), Class 9
IMDG UN 3334, Aviation Regulated Liquid, n.o.s. (Cyanoacrylate Ester), Class 9

SECTION 15: REGULATORY INFORMATION

Chemical Inventory: All ingredients of this product are listed or exempted from the following inventories: TSCA (USA), EINECS (EU), DSL (CANADA), ENCS (JAPAN), AICS (AUSTRALIA)

SECTION 16: OTHER INFORMATION

The information contained in this MSDS is based on our present knowledge. It was obtained from a variety of sources and is believed to be accurate and current at the stated version date. This data is provided without warranty for the use of this information, application or processing described in this MSDS. Users should note the possibility of hazards occurring due to improper use of the product.

Department issuing MSDS: Research and Development Department
Contact: Marketing Department

ABBREVIATIONS AND ACRONYMS:

PICCS – PHILIPPINE INVENTORY OF CHEMICALS AND CHEMICAL SUBSTANCES
EINECS – EUROPEAN INVENTORY OF EXISTING COMMERCIAL CHEMICAL SUBSTANCES
KECI – KOREAN EXISTING CHEMICALS LIST
TSCA – TOXIC SUBSTANCES CONTROL ACT
DSL – DOMESTIC SUBSTANCES LIST
ENCS – JAPANESE EXISTING AND NEW CHEMICALS SUBSTANCES