

CCS800 Chip Repair Kit

Revised February 11th 2008

HMIS HEALTH 2 FLAMMABILITY 2 PHYSICAL HAZARD 1

1. Chemical Product

Product Name: RP, SI, FS, HT, & MG Series
Product Type: Ethyl Cyanoacrylate

2. Composition and Information on Harmful Ingredients

Ingredients	CAS No.	OSHA PEL	ACGIH TLV	Other Limits	%Composition
Ethyl Cyanoacrylate	7085-85-0	N/A	0.2ppm TWA	0.3ppm STEL	86-100

3. Hazards Identification

Label Precautionary Statements: Irritant. Irritating to eyes, skin, and respiratory system.
Cyanoacrylate. Danger. Bonds skin and eyes in seconds.

Primary Routes of Entry: None Known

Symptoms of Exposure: Vapor irritating to eyes and breathing. Prolonged exposure
may lead to non-allergic asthma.

**Medical Conditions Aggravated
by Exposure:** No applicable information found.

Ethyl Cyanoacrylate is not listed as a carcinogen in the US National Toxicology Program Annual report on carcinogens, or by the International Agency for Research on Cancer.

4. First Aid Measures

Ingestion: Ingestion not likely due to polymerization.

Inhalation: Remove to fresh air, if symptoms continue, seek medical advice.

Skin Contact: Soak in warm soapy water.

Eye Contact: Flush with water, seek medical attention.

MATERIAL SAFETY DATA SHEET
RP, SI, FS, HT, & MG SERIES
CYANOACRYLATE ADHESIVE

5. Fire Fighting Measures

Flash Point:	>81°C
Extinguishing Media:	Water spray, foam, dry chemical or CO2.
Special Fire Fighting Procedures:	Wear self contained breathing apparatus.
Unusual Fire / Explosion Hazards:	No applicable information found.
Hazardous Thermal Decomposition Products:	Irritating organic vapors may be formed.

6. Accidental Release Measures

Ventilate area of spill, flood with water to polymerize, absorb with sand / earth and dispose to chemical waste bin. Dispose in accordance with pertinent national legislation.

7. Handling and Storage

When using large volumes ensure that operational area is well ventilated.
Store between 5-25°C; avoid strong light and heat sources.
Incompatible with amine, bases, water.
Avoid skin contact and inhalation of vapor.

8. Exposure Control and Personal Protection

Eye Protection:	Safety goggles / glasses suitable for use with chemicals.
Respiratory Protection:	Always use appropriate filter mask / respirator.
Skin Protection:	Nitrile / polyethylene gloves, coveralls, avoid cotton products.
Ventilation:	Good general or local exhaust ventilation is required for usage.

9. Physical and Chemical Properties

Form:	Liquid
Color:	Water white / straw colored
Odor:	Sharp, irritating
Solubility in Water:	Immiscible in water
Boiling Point:	>100°C
Specific Gravity @ 25°C:	1.1
Vapor Pressure @ 25°C:	<0.5mm Hg
Flash Point:	>81°C
V.O.C. Content:	<20g/L estimated (California SCAQMD Method 316B)

MATERIAL SAFETY DATA SHEET
RP, SI, FS, HT, & MG SERIES
CYANOACRYLATE ADHESIVE

10. Reactivity and Stability

Stability:	Stable
Hazardous Polymerization:	Will not occur
Incompatibility:	Water, bases, amines
Conditions to Avoid:	No applicable information found
Hazardous Decomposition Products:	No applicable information found

11. Toxicological Information

Estimated Oral LD50: >5000 mg kg
Estimated Dermal LD50: >2000 mg kg
Estimated Inhalation LC50: >4000ppm/1H
Causes Severe Irritation. High concentrations are destructive to tissues of the mucous membranes and the upper respiratory tract.

12. Ecological Information

No applicable information found

13. Disposal Considerations

Cyanoacrylates must be disposed of in accordance with all national and local regulations.

14. Transportation Information

Not considered hazardous for the purposes of transportation.

15. Regulatory Information (Not meant to be all inclusive)

TSCA

All ingredients of this product are listed, or are exempt from listing, on the TSCA inventory.

Canada DSL

All ingredients of this product are listed, or are exempt from listing, on the Canada DSL.

NON-WARRANTY: Information contained herein is based on tests we believe to be reliable and accurate. It is offered in good faith for the benefit of the consumer. Adhesive Systems shall not be liable for any injury, loss, or damage in the use of its chemical products since the conditions of use are beyond our control. In every case we urge and recommend the user conduct tests to determine to their own satisfaction that the product is of acceptable quality and is suitable for their particular purpose under their own operating conditions. Statements concerning the possible use of our products are not intended as recommendations to use our products in the infringement of any patent. Because of changing reporting requirements and other variables it is impossible to guarantee the accuracy of the information contained in this document. It is the responsibility of the user to determine proper personal protection based on the actual condition of use and to comply with all Federal, State, and Local laws and regulations.

MATERIAL SAFETY DATA SHEET

QUICK TAC 2

ACCELERATOR

- Skin contact:** Flush skin with plenty of water while removing contaminated clothing and shoes. If irritation persists, get medical attention.
- Inhalation:** Remove to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration, preferably mouth-to-mouth. **GET MEDICAL ATTENTION IMMEDIATELY.**
- Ingestion:** If swallowed, call a physician immediately. **DO NOT** induce vomiting unless directed to do so by a physician. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.

NOTE TO PHYSICIANS: There is no specific antidote. Treatment should be directed at controlling symptoms and the clinical condition of the patient. Any material aspirated during vomiting may cause lung injury. Therefore, emesis should not be induced mechanically or pharmacologically. If it is necessary to evacuate the stomach contents, this should be done by means least likely to cause aspiration (e.g., gastric lavage after endotracheal intubation).

5. Fire Fighting Measures

- Flash Point:** < 0°F
- Flammability Limits:** LEL: 1.5% UEL: 13%
- Autoignition temperature:** 869°F
- Extinguishing Media:** Water spray, foam, dry chemical or CO₂.
- Special Fire Fighting Procedures:** Wear self contained breathing apparatus.
- Fire / Explosion Hazards:** **EXTREMELY FLAMMABLE LIQUID.** Vapors are heavier than air.
- Hazardous Thermal Decomposition Products:** Carbon dioxide, carbon monoxide.

6. Accidental Release Measures

EXTREMELY FLAMMABLE LIQUID. Eliminate all sources of ignition. Evacuate unprotected personnel from area. Maintain adequate ventilation. Follow personal protection recommendations found in section 8. Shut off source of leak if safe to do so. Use non-sparking tools and equipment. Contain spill, place into drums for proper disposal. Soak up residue with non-flammable absorbent material. **DO NOT** use sawdust. Avoid direct discharge to sewers and surface waters. Notify authorities if entry occurs. Use water spray to control vapor.

7. Handling and Storage

- Storage:** **EXTREMELY FLAMMABLE LIQUID.** Store in a cool, well-ventilated area away from all sources of ignition and out of direct sunlight. Keep containers tightly closed. Bond and ground transfer containers and equipment.
- Handling:** Avoid contact with eyes, skin, and clothing. **DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.**

8. Exposure Control and Personal Protection

- Engineering controls:** Engineering controls are imperative when using this product to

MATERIAL SAFETY DATA SHEETS

QUICK TAC 2

ACCELERATOR

Respiratory protection: avoid overexposure. Do not use in closed or confined spaces. If exposure limits are exceeded, wear NIOSH respirator.
Eye/face protection: Wear chemical safety goggles and a full face shield.
Skin protection: Prevent contact. Wear gloves made of butyl rubber, neoprene, natural rubber, nitrile, viton®, polyvinyl alcohol, polyethylene, or polyvinyl chloride.
Other protective equipment: Eye-wash station, safety shower, rubber apron.
General hygiene considerations: Wash with soap and water before meal times and at the end of each work shift.

9. Physical and Chemical Properties

Boiling point:	133°F	Specific gravity:	0.79@20°C
Freezing point:	-139°F	% Volatile:	100
Melting point:	N.A.	Evaporation rate:	>5
Vapor pressure:	180@20°C	VOC (WT%):	0
Solubility in water:	Complete	VOC (Lbs/Gal):	0

10. Reactivity and Stability

Stability: Stable.
Hazardous Polymerization: Will not occur.
Incompatibility: Acids, alkalies, oxidizers.
Conditions to Avoid: Avoid contact with heat, sparks, electric arcs, and open flames.
Hazardous Decomposition Products: Carbon dioxide and carbon monoxide.

11. Toxicological Information

Oral LD50: Rat – 5800mg/kg
 Mouse – 3000mg/kg
Dermal LD50: Rabbit – 20g/kg
Inhalation LC50: Rat – 50100mg/m³/8H
 LCLo mouse – 110g/m³/8H

Development of cataracts has been reported in laboratory animals after prolonged or repeated exposure to acetone. In animal studies, repeated oral dosing of large amounts of acetone was reported to cause adverse effects in the hematological system, liver, kidney, and testis. In animals, acetone administration can potentiate the toxicity of a variety of chemical toxicants, which is believed to be secondary to induction of live enzymes. In pregnant animals exposed to high concentrations of acetone, there were no birth defects, but some evidence of embryofetal toxicity.

12. Ecological Information

Extensive data, call for information.

MATERIAL SAFETY DATA SHEETS
QUICK TAC 2
ACCELERATOR

13. Disposal Considerations

Hazardous waste number: U002; D001

Note: When acetone is a spent solvent, it is classified as a hazardous waste from a nonspecific source (F003). An additional EPA hazardous waste number may include: D018

Disposal method: Dispose of in a permitted hazardous waste management facility following all local, state, and federal regulations.

14. Transportation Information (Not meant to be all inclusive)

DOT (Department of Transportation):

Shipping name: Acetone
Hazard class: 3
ID/UN number: UN1090
Packing group: II
Label required: Flammable Liquid
Reportable quantity (RQ): 5000Lbs.

15. Regulatory Information

State regulations:

California – The following components are listed under Prop 65:

Benzene (<=0.003%)

Formaldehyde (<=0.002%)

Wisconsin – The following components are listed as a Wisconsin HAP:

None

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CHEMICAL CONCEPTS

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