

REVISED
Dec./2014



MATERIAL SAFETY DATA SHEETS

1. CHEMICAL PRODUCT

Adhesive Systems, Inc.
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Product Name: RP, SI, FS, HT, & MG Series

Technical Name: Ethyl Cyanoacrylate

2. 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.

Hazard Classification

Physical Classification: Combustible Liquid Category 4

Symbol: No symbol required

Signal Word: Warning

Health Classification:

Irritant: Causes mild skin or eye irritation Category 3



Symbol:

Signal Word: Warning

3. 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 |

*Proprietary means the specific chemical identity and/or weight percent is being withheld as a trade secret.



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CYANOACRYLATE ADHESIVE

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.

5. FIRE FIGHTING MEASURES

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 area with water to polymerize. Absorb with sand / earth and dispose in accordance with local, state, and federal regulations.

7. HANDLING AND STORAGE

When using large volumes ensure that operational area is well ventilated.
Avoid strong light and heat sources.
Incompatible with amine, bases, water.
Avoid skin contact and inhalation of vapor.
Material should be stored at or below 22°C. Shelf Life: 1 year in an unopened container, stored properly.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

OSHA PEL: N/A
TLV: 0.2 ppm TWA
Engineering Controls: Use good general local ventilation when working with this material.
Eye Protection: Safety goggles / glasses suitable for use with chemicals.
Respiratory Protection: Use with adequate ventilation. If adequate ventilation is not available always use appropriate organic vapor mask.
Skin Protection: Nitrile / polyethylene gloves, coveralls, avoid cotton products.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquid
Color: Water white
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)



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10. REACTIVITY AND STABILITY

Chemical Stability: Stable Hazardous
Polymerization: None Incompatibility:
Water, bases, amines Conditions to
Avoid: None
Hazardous Decomposition Products: None

11. TOXICOLOGICAL INFORMATION

Routes of Exposure: Skin or Eyes
Related Symptoms: May cause acute skin or eye irritation.
Chronic Effects: None
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

None.

13. DISPOSAL INFORMATION

This material must be disposed in compliance with local, state, and federal regulations. When in consumer packaging this material must be disposed of as household waste. Check local and state regulations for disposal of this product as a household waste in your state or municipality.

14. TRANSPORTATION INFORMATION

International Air Transportation (ICAO/IATA)

Proper shipping name: Aviation regulated liquid, n.o.s. (Cyanoacrylate ester)

Hazard class or division: 9

Identification number: UN 3334

Packing group: III

Exceptions: Primary packs containing less than 500ml are unregulated by this mode of transport and may be shipped unrestricted.

Water Transportation (IMO/IMDG)

Proper shipping name: Not regulated

Hazard class or division: None

Identification number: None

Packing group: None

Not considered hazardous for the purposes of transportation.





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15. REGULATORY INFORMATION

TSCA

All ingredients of this product are listed, or are exempt from listing, on the TSCA inventory. No California Proposition 65 listed chemicals are known to be present.

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

16. OTHER INFORMATION

Initial: 8/22/2007

Revised: December 2014

Risk phrases:

R36/37/38 Irritating to eyes, respiratory system and skin.

Safety phrases:

S23 Do not breathe vapour.

S24/25 Avoid contact with skin and eyes.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

H315 Causes Irritation

H319 Causes serious eye irritation

H335 May cause respiration

Precautionary Statement: P261 Avoid breathing vapor

Prevention: P280 Wear protective gloves/eye protection

Precautionary Statement/Prevention: P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Precautionary Statement: P501 Dispose of waste and residues in accordance with local authority requirements.

Addition labeling: Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of reach of children.

| | | | |
|------|----------|----------------|--------------|
| HMIS | HEALTH 2 | FLAMMABILITY 2 | REACTIVITY 1 |
| NFPA | HEALTH 2 | FIRE HAZARD 2 | REACTIVITY 1 |

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.

Engineering Excellence

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