

REVISED  
JUNE/2014



## MATERIAL SAFETY DATA SHEETS

### 1. CHEMICAL PRODUCT

Adhesive Systems, Inc.  
9411 Corsair Road  
Frankfort, IL 60423  
1-800-552-0299 Phone  
1-815-464-5650 Fax

**EMERGENCY PHONE 1-800-255-3924**

**International +01+813-248-0585**

**Product Name:** MP55320/MP55420 Part A (Resin)

**Technical Name:** Methyl Methacrylate

### 2. HAZARDS IDENTIFICATION

Primary Routes of Entry:

Inhalation and skin

Symptoms of Exposure:

Eyes-redness, swelling, tearing, and hazy vision.

Skin-redness, swelling, and itching.

Inhalation- Soreness of the nose and throat, coughing.

Medical Conditions Aggravated  
by Exposure:  
exposure.

Preexisting eye, respiratory, and skin disorders may be aggravated by

Carcinogenicity:

None

Hazard Classification

Physical Classification: Flammable Liquid and vapor Category 3



Symbol:

Signal Word: Danger

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
Methyl Methacrylate	80-62-6	100ppm	50ppm	100ppm (Canada)	55-65
Chlorosulfonated Polyethylene	68037-39-8	N.E.	N.E.	N.E.	2-6
P(BD/MMA/STY)	25053-09-2	N.E.	N.E.	N.E.	10-20
Methacrylic Acid	79-414	20ppm	20ppm	None	1-10

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



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MP55320/MP55420 Part A (Resin)

Methyl Methacrylate

## 4. FIRST AID MEASURES

Ingestion: Get immediate medical attention, DO NOT INDUCE VOMITING.  
Inhalation: Remove to fresh air, if symptoms continue, seek medical advice.  
Skin Contact: Soak in warm soapy water. Discard contaminated clothing. Do not use organic solvents. If irritation occurs, get medical attention.  
Eye Contact: Immediately flush eyes with water for at least 20 minutes, seek medical attention.

## 5. FIRE FIGHTING MEASURES

Flammable Limits: LEL=2.1 for MMA UEL=12.5 for MMA  
Extinguishing Media: Use dry chemical powder. Insoluble in water.  
Special Fire Fighting Procedures: Wear self contained breathing apparatus and full turnout gear.  
Unusual Fire / Explosion Hazards: None

## 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.  
Store between 5-25°C; avoid strong light and heat sources. These products should never be frozen.  
Avoid skin contact and inhalation of vapor.

## 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

Appearance and Odor: Light gel, milky white color, pungent, acrylic odor  
Flashpoint: 51°F (TCC) Solubility  
in Water: Slight Boiling  
Point: 214°F for MMA Specific  
Gravity: 0.94-1.0 @25°C  
Evaporation rate: N/D  
Melting Point: N/D  
Vapor Pressure: 29mm @ 20°C  
Vapor Density: >1, 3.5 for MMA  
V.O.C. Content: 1.98%; 1.92%/L (A&B Mixed)

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Methyl Methacrylate

## 10. REACTIVITY AND STABILITY

Chemical Stability: Stable

Hazardous Polymerization: May occur, Excessive aging and/or heat, polymerization catalysts, oxygen-free atmosphere, inhibitor depletion, direct sunlight.

Incompatibility: Oxidizers, acids, bases, uv radiation, amines.

Conditions to Avoid: None

Hazardous Decomposition Products: Carbon and nitrogen oxides, hydrogen cyanide, methylene bisphenyl, isocyanate, hydrocarbons

## 11. TOXICOLOGICAL INFORMATION

Routes of Exposure; Inhalation and skin

Related Symptoms: Moderate respiratory tract irritation. Moderate skin irritation, redness.

Chronic Effects: Chronic Exposure may lead to kidney or liver damage. Use adequate ventilation to maintain airborne concentration below exposure limits. Not believed to represent a carcinogenic or mutagenic hazard.

## 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

U.S.DOT

**Materials shipped in Quantities of more than 1 Liter in combination or single packaging.**

UN 1133 Adhesives 3 II

**Limited quantities, No shipping paper required. Limited quantity mark is required on the outer surface of the finished package.**

ICAO/IATA

**Materials shipped in Quantities of more than 1 Liter in combination or single packaging.**

UN 1133 Adhesives 3 II

**Materials shipped in Limited Quantities**

**ID 8000 Consumer Commodity 9 (Limited Quantity Marking with Y required on outer surface of the package and Class 9 label also required on the outer surface of the package)**

IMDG

**Materials shipped in Quantities of more than 1 Liter in combination or single packaging.**

UN 1133 Adhesives 3 II

Limited quantities in combination packages only:

**UN1133 Adhesives 3 II Ltd. Qty (FP in degrees C c.c. required on shipping paper) Limited marking only required on outer surface of package.**



# MATERIAL SAFETY DATA SHEETS

MP55320/MP55420 Part A (Resin)

Methyl Methacrylate

## 15. REGULATORY INFORMATION

TSCA

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

SARATitleIII,Section13

This product does contain the following chemical(s) which are defined as toxic chemicals under and subject to the reporting requirements of, Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40CFR Part 372.

Methyl Methacrylate

## 16. OTHER INFORMATION

**Initial: 8/22/2007**

**Revised: JUNE 2014**

HMIS

HEALTH 2

FLAMMABILITY 3

REACTIVITY 2

**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.

Revised JUNE 2014

**Engineering Excellence**

For technical information  
and support call **1-800-552-0299** or visit our website at

**[www.instantca.com](http://www.instantca.com)**



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**EMERGENCY PHONE 1-800-255-3924**      **International +01+813-248-0585**

**Product Name:** MP55320/MP55420 Part B (Activator)

**Technical Name:** Methyl Methacrylate

### 2. HAZARDS IDENTIFICATION

Primary Routes of Entry: Inhalation and skin  
Symptoms of Exposure: Eyes-redness, swelling, tearing, and hazy vision.  
Skin-redness, swelling, and itching.  
Inhalation- Soreness of the nose and throat, coughing.

Medical Conditions Aggravated  
by Exposure: Preexisting eye, respiratory, and skin disorders may be aggravated by exposure.  
Carcinogenicity: None

Hazard Classification  
Physical Classification: Flammable Liquid Category 3



Symbol:  
Signal Word: Danger

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
Methyl Methacrylate	80-62-6	100ppm	50ppm	100ppm (Canada)	65-75
P(BD/MMA/STY)	25053-09-2	N.E.	N.E.	<b>N.E</b>	15-25





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MP55320/MP55420 Part B (Activator)

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## 5. FIRE FIGHTING MEASURES

Flammable Limits: LEL=2.1 for MMA UEL=12.5 for MMA  
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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Off white, brown, or white gel. Pungent, acrylic odor.  
Flashpoint: 51°F (TCC)  
Solubility in Water: Slight  
Boiling Point: 214°F for MMA  
Specific Gravity: 1.2-1.3 @25°C  
Evaporation rate: N/D  
Melting Point: N/D  
Vapor Pressure: 29mm @ 20°C  
Vapor Density: >1, 3.5 for MMA  
V.O.C. Content: <50g/L

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Incompatibility: Oxidizers, acids, bases, uv radiation, amines.

Conditions to Avoid: None

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