



SAFETY DATA SHEET

Product Name: MA-1
Revision Date: 11/8/19

1. Product and Company Identification

Product Name: MA-1

Company Identification: U.S. Adhesives Company
1735 W. Carroll Avenue
Chicago, IL 60612

Telephone/Fax: (312) 829-7438 (312) 829-9733

Emergency Phone: Contact local poison control center
CHEMTREC (24 Hour): (800) 424-9300
CHEMTREC (International): (703) 527-3887

Product Use: Mirror Mastic, LOW VOC CA Compliant Adhesive

2. Hazards identification

Emergency Overview			
Physical State:	Paste	<u>HMIS</u> Health	2
Color:	Off-White	Flammability	2
Odor:	Solvent	Physical Hazard	0
		Personal Protection	See Section 8
SIGNAL WORD: DANGER			
H226 FLAMMABLE LIQUID AND VAPOR			
H315 CAUSES SKIN IRRITATION			
H319 CAUSES SERIOUS EYE IRRITATION			
H302 + H332 HARMFUL IF SWALLOWED OR INHALED			
H335 MAY CAUSE RESPIRATORY IRRITATION			
H336 MAY CAUSE DROWSINESS OR DIZZINESS			

GHS HAZARD CLASS: FLAMMABLE LIQUID: HAZARD CATEGORY 3. SKIN IRRITATION: HAZARD CATEGORY 2. EYE IRRITATION: HAZARD CATEGORY 2A. SWALLOWED INHALED: HAZARD CATEGORY 4. RESPIRATORY IRRITATION: HAZARD: CATEGORY 3. DROWSINESS: DIZZINESS: HAZARD: CATEGORY 3.



PICTOGRAMS:

Precautionary statements.

PREVENTION. Keep away from heat, sparks, open flames and hot surfaces [P210]. Keep container tightly closed [P233]. Use only non-sparking tools [P242]. Take precautionary measures against static discharge [P243]. Wear protective gloves, protective clothing, eye protection and face protection [P280]. Wash hands thoroughly after handling [P264]. Avoid breathing fumes, mist, vapors, or spray [P261]. Use only outdoors or in a well-ventilated area [P271].

RESPONSE. If on skin or hair: Take off immediately all contaminated clothing. Rinse skin with water/shower [P303+P361+P353]. If inhaled: Remove person to fresh air and keep comfortable for breathing [P304+P340]. If (uncured product) swallowed: Immediately call a POISON center or doctor/physician. Do not induce vomiting [P301+P310+P331].

In case of fire: Use dry chemicals, CO₂, water fog or foam to extinguish [P370 + P378].

STORAGE: Store in a well-ventilated place [P403]. Keep container tightly closed [P233]. Store locked up and out of reach of children [P405 +P102]

DISPOSAL: Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations [P501].

3. Composition/information on ingredients

Components	CAS#	Percent*
Limestone	1317-65-3	38
PCBTF	98-56-6	32
Aromatic Petroleum Distillates	64742-94-6	1.5
Quartz (SiO ₂)	14808-60-7	1.9
Trimethylbenzenes	95-63-6	0.48

*Exact percentage is a trade secret. Range is provided to assist user in selecting appropriate protections.

All other ingredients, including proprietary (trade secret) hydrocarbon resins and elastomers, are considered non hazardous. The main hazard of limestone and quartz is dust inhalation. Because of incorporation into adhesive, exposure by inhalation is unlikely.

4. First-aid measures

Skin Contact:	Rinse with running water and soap. If symptoms develop and persist, seek medical attention.
Inhalation:	If inhaled, remove the affected person to fresh air. If breathing is difficult, give oxygen. If symptoms develop and persist, seek medical attention.
Eye contact:	Flush eyes with water for 15 minutes, and seek immediate medical attention.
Ingestion:	If uncured sealant is ingested, do not induce vomiting. Seek medical attention immediately.
Notes to physician:	Treat symptomatically and supportively.

5. Fire-fighting measures

Extinguishing Media:	Dry Chemical, Foam, Carbon Dioxide, Water Fog or Spray, In case of fire, keep containers cool with water spray.
Special Firefighting Procedure:	Under fire emergency conditions, it is recommended that full protection equipment be used, including NIOSH approved self-contained breathing apparatus to protect fire fighters from any hazardous combustion products. Wear full protective clothing.
Unusual Fire & Explosion Hazards:	During emergency conditions, over exposure to combustion products such as smoke and carbon monoxide may cause a health hazard.
General Fire Hazards	Caution: Flammable vapors. Vapors are heavier than air and may travel to distant ignition sources. Keep containers closed. Use with adequate ventilation.
Flash Point:	Product is a solid paste. Burn rate unknown. PCBTF solvent exhibits a flash point of 109° F (42.8° C)-closed cup, but is a non-regulated material under the DOT Hazardous Material Regulations and the IMDG Code because it does not sustain combustion.
Autoignition temperature	Not available
Hazardous Combustion Products:	Carbon dioxide. Carbon Monoxide.

6. Accidental release measures

Environmental precautions:	Ventilate area. Keep upwind of spill. Prevent further leakage or spillage if safe to do so. Do not allow product to enter sewer or waterways.
Clean up methods:	Remove all sources of ignition. Cover material in inert absorbent and place into an appropriate closed container. Use personal protection recommended in section 8 as required to maintain exposure below applicable exposure limit. Restrict area access to necessary personnel.
Waste Disposal Method:	Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

7. Handling and Storage:

When handling uncontained material, use protective equipment as described in Section 8 to maintain exposure below the applicable exposure limit. Use only in well ventilated areas.

Store in a cool, dry well-ventilated area. Store away from sources of ignition. Do not heat or pressurize containers. Keep out of reach of children. Do not reuse empty containers.

8. Exposure controls/personal protection:

Employers should complete an assessment of all workplaces to determine the need for and selection of proper exposure controls and protective equipment for each task performed.

Hazardous Components	ACGIH TLV	OSHA PEL	AIHA WEEL
PCBTF	none	none	none
Aromatic Petroleum Distillates	100 ppm TWA	100 ppm TWA	none
Limestone	10 mg/m3 TWA total dust	5 mg/m3 TWA respirable fraction 15 mg/m3 TWA total dust	none
Quartz (SiO ₂)	0.025 mg/m3 TWA respirable fraction	0.1 mg/m3 TWA respirable fraction 0.3 mg/m3 TWA total dust	none
Trimethylbenzenes	25 ppm TWA	50 ppm (245 mg/m3) TWA	none

Engineering controls: Intended for dwellings having forced fresh air ventilation. Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination below occupational exposure limits.

Respiratory Protection: Avoid concentrating vapors in any closed area. Use a NIOSH approved air purifying respirator if the potential to exceed established limits exists. When required, a respirator program following 29CFR 1910.134 should be followed. NIOSH approved organic vapor purifying respirator may be used for the voluntary reduction of nuisance odors.

Eye/face protection: Safety goggles or safety glasses with side shields are prudent practices.

Skin Protection: Use impermeable gloves and protective clothing as necessary to prevent skin contact.

9. Physical and chemical properties

Physical State: Solid paste
Color: Off white.
Solubility: Not available. Not water soluble.
Specific Gravity (20 °C): 1.3
Relative Vapor Density (air=1): Not available, heavier than air.
Vapor Pressure (20 °C): Not available. Evaporation rate is slower than ether.
Odor: PCBTF and aromatic petroleum distillates have an aromatic solvent odor.
Flash Point (42.8°C): 109°F-closed cup
Flammability Limits (%): Not available
Autoignition Temperature (°C): Not available
Melting Point/Range (°C): Not available
Boiling Point/Range (°C): Not available
pH: Not applicable
VOC (w/w%): <1.5%

10. Stability and reactivity

Chemical stability: This material is thermally stable when stored and used as directed. Hazardous polymerization will not occur.

Conditions to avoid: Avoid high temperatures, flame, sparks and other ignition sources.

Incompatible Materials: None known. It is prudent to avoid strong oxidizing agents with carbon based systems.

Hazardous decomposition products: Oxides of carbon, smoke and other toxic fumes.

Hazardous reactions: None known. Unlikely to occur.

11. Toxicological information

Relevant Routes of exposure: Skin, Inhalation

Potential health effects

Skin Contact: Repeated or prolonged skin contact may cause skin irritation and or dermatitis in sensitive persons.

Inhalation: Over exposure to vapors may cause dizziness, headaches and respiratory tract irritation. Exposure to high doses may cause central nervous system depression. People with a history of chemical sensitivity should be advised this product contains petroleum solvents. Reports have associated prolonged and repeated overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately inhaling concentrated fumes may be harmful or fatal.

Eye contact: Direct contact symptoms can include significant irritation, redness and tearing.

Ingestion: Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

No available information regarding existing conditions aggravated by exposure.

Hazardous Components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
PCBTF	No	No	No
Aromatic Petroleum Distillates	No	No	No
Limestone	No	No	No
Quartz (SiO ₂)	Known human carcinogen	Group 1	No
Trimethylbenzenes	No	No	No

Hazardous Components	Health Effects/Target Organs
PCBTF	Adrenals, Blood, CNS, Immune system, Irritant, Kidney, Liver, Lung, Skin, Thyroid
Aromatic Petroleum Distillates	Irritant, Central Nervous System
Limestone	Nuisance dust
Quartz (SiO ₂)	Immune system, Lung, Some evidence of carcinogenicity
Trimethylbenzenes	Irritant, Central Nervous System

Sensitization: None known.
 Chronic: Possible skin and eye irritant
 Carcinogenicity: NTP: No, IARC: No, OSHA: No.
 Mutagenicity: None known.
 Medical Conditions Aggravated by Exposure: None known.
 Reproductive Toxicity: None known.
 Acute Toxicity Values: Not determined.

12. Ecological information

No data are available on the adverse effects of this material on the environment. PCBTF has neither COD nor BOD data available. Volatility, and relative environmental partitioning characteristics, makes it unlikely that PCBTF represents a significant threat to aquatic or terrestrial environments. Based on the chemical composition of this product it is assumed that the mixture can be treated in an acclimatized biological waste treatment plant system in limited quantities. However, such treatment should be evaluated and approved for each specific biological system. Additional ingredients have neither COD nor BOD data available. None of the ingredients in this mixture are classified as a Marine Pollutant. Avoid contaminating waterways.

Ecotoxicity: No information available.

Persistence and degradability: No information available.

Mobility: No information available. Based on the chemical composition, volatile substances are likely to enter the atmosphere. No accumulation is expected. PCBTF is approved as an exempted non-VOC solvent.

13. Disposal considerations

All waste must be disposed in accordance with Federal, State, and Local Regulations (see 40 CFR Part 268). It is the responsibility of the user to determine at time of disposal whether a material containing the product or derived from the product should be classified as a solid or hazardous waste.

US EPA waste number: D001, Ignitable waste.

14. Transport information

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (ocean, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport.

US Ground (DOT)

Flammability Classification: OSHA: Class IB Viscous mixture with Flash Point: <110°F, TCC
DOT: 173.150 (c) "Consumer Commodity", Class ORM-D Material.
173.121, Class 3(b) E 173.150

DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities: none

Proper shipping name Adhesives
Hazard Class 3
Identification number UN 1133
Packing group III

Canada (TDG)

Proper shipping name Adhesives
Hazard Class 3
Identification number UN 1133
Packing group III
QUANTITY, (ERG#160)

International or Air Shipments in non-bulk containers, 172.101 Flammable Liquid, n.o.s. UN1993, Packaging Group III.

15. Regulatory information

United States Regulatory information:

All components comprising this product are listed on the TSCA 8(b) inventory.

TSCA Export notification 12(b) list: Solvent (CAS#98-56-6)

CERCLA/SARA Section 302 EHS None above reporting limits

CERCLA/SARA Section 311/312 EHS Immediate Health. Delayed Health, Fire

CERCLA/SARA Section 313 EHS Trimethylbenzene (95-63-6)

CA Proposition 65: This product contains a chemical known to the state of California to cause cancer, birth defects or other reproductive harm.

Canadian Regulatory:

CEPA DSL/NDSL Status: All components comprising this product are listed on the Canadian DSL.

WHMIS hazard Class: B.2, D.2a. D.2b

16. Other information

Disclaimer: The data contained herein are furnished in good faith for information only and are believed to be reliable on the effective issue date. However, U.S. Adhesives and its subsidiaries or suppliers do not assume responsibility for any results obtained by persons whose methods are not controlled by US Adhesives and its affiliates or suppliers. It is the user's responsibility to determine the suitability the products for a specific use, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of the products. U.S. Adhesives and its suppliers specifically disclaim all warranties, express or implied, including merchantability and fitness for a particular purpose or location, arising from the sale or use of the products. U.S. Adhesives

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