

SAFETY DATA SHEET

Methacrylate Structural Adhesive MA2060 PTA

According to Regulation GB/T 16483-2008 and GB/T 17519-2013

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name Methacrylate Structural Adhesive MA2060 PTA
Product No. 14703

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Adhesive.
Uses advised against No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier ITW Performance Polymers (Wujiang) Co. Ltd.
No.4680 North Pangjin Road
Economic Development Zone
Wujiang, Jiangsu, China
Telephone : (+86) 512-63488388
Fax : (+86) 512-63091890
E-mail Address : info@itwppfchina.com
Contact Person ITW Performance Polymers (Wujiang) Co. Ltd.

1.4. Emergency telephone number

National Emergency Telephone Number
(+86) 532-83889090 (24H)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards	Flam. Liq. 2 - H225
Human health	Acute Tox. 4 - H302; Acute Tox. 4 - H312; Acute Tox. 4 - H332; Skin Irrit. 2 - H315; Eye Irrit. 2 - H319; Skin Sens. 1 - H317; STOT SE 3 - H335; STOT RE 2 - H373
Environment	Not classified.

Human health

Harmful. Irritating. Potential Sensitizer.

Environment

Contains a substance which causes risk of hazardous effects to the environment.

Physical and Chemical Hazards

Flammable liquid and vapour.

2.2. Label elements

Label In Accordance With (EC) No. 1272/2008



Signal Word

Danger

Hazard Statements

H225

Highly flammable liquid and vapour.

H302

Harmful if swallowed.

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H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.

Supplementary Precautionary Statements

P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P260	Do not breathe vapour/spray.
P261	Avoid breathing vapour/spray.
P264	Wash contaminated skin thoroughly after handling.
P321	Specific treatment (see medical advice on this label).
P370+378	In case of fire: Use foam, carbon dioxide, dry powder or water fog for extinction.
P301+312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302+352	IF ON SKIN: Wash with plenty of soap and water.
P303+361+353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or doctor/physician if you feel unwell.
P312	Get medical advice/attention.
P313	Get medical advice/attention if you feel unwell.
P314	Get medical advice/attention if you feel unwell.
P322	Specific measures (see ... on this label).
P330	Rinse mouth.
P332+313	If skin irritation occurs: Get medical advice/attention.
P333+313	If skin irritation or rash occurs: Get medical advice/attention.
P337	If eye irritation persists:
P362	Take off contaminated clothing and wash before reuse.
P363	Wash contaminated clothing before reuse.
P403+233	Store in a well-ventilated place. Keep container tightly closed.
P403+235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to ...

2.3. Other hazards

No other hazards.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Methyl Methacrylate	30-60%
CAS-No. : 80-62-6	
Classification (EC 1272/2008)	Classification (67/548/EEC)
Flam. Liq. 2 - H225	F;R11
Skin Irrit. 2 - H315	R43
Skin Sens. 1 - H317	Xi;R37/38
STOT SE 3 - H335	

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n-Butyl Acrylate-Methyl Methacrylate Copolymer	30-60%
CAS-No. : 25852-37-3	
Classification (EC 1272/2008) Skin Sens. 1 - H317	Classification (67/548/EEC) R43.
Methacrylic Acid	1-5%
CAS-No. : 79-41-4	
Classification (EC 1272/2008) Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Corr. 1A - H314 STOT SE 3 - H335	Classification (67/548/EEC) C;R35 Xn;R21/22
N,N-Dimethyl-Toluidine	1-5%
CAS-No. : 99-97-8	
Classification (EC 1272/2008) Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 STOT RE 2 - H373 Aquatic Chronic 3 - H412	Classification (67/548/EEC) T;R23/24/25 R33 R52/53
Methacryloxyethyl Acid Phosphate	1-5%
CAS-No. : 52628-03-2	
Classification (EC 1272/2008) Acute Tox. 4 - H302 Skin Corr. 1A - H314 Eye Dam. 1 - H318 STOT SE 3 - H335	Classification (67/548/EEC) Xn;R22. C;R35. Xi;R37, R41.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information

Get medical attention if any discomfort continues.

Inhalation

IF HALANT: Move the exposed person to fresh air at once. If respiratory problems, artificial respiration/oxygen. Call a POISON CENTER or doctor if you feel unwell.

Ingestion

IF SWALLOWED: DO NOT induce vomiting. Call a POISON CENTER or doctor. Never give anything by mouth to an unconscious person.

Skin contact

IF ON SKIN(or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention.

Eye contact

IF IN EYES: Hold eyelids apart. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

4.2. Most important symptoms and effects, both acute and delayed

General information

If adverse symptoms develop as described the casualty should be transferred to hospital as soon as possible.

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Inhalation

May cause severe respiratory system irritation. High concentration may cause dizziness, headache, and anesthetic effects. May cause respiratory sensitization with asthma-like symptoms in susceptible individuals.

Ingestion

Cause irritation. A burning sensation of the mouth, throat and gastrointestinal tract. Abdominal pain.

Skin contact

Can cause skin irritation. Itching, redness, rashes, hives, burning, and swelling. Allergic reactions are possible. May cause skin sensitization, an allergic reaction, which becomes evident on reexposure to this material.

Eye contact

Can cause moderate irritation, burning sensation, tearing, redness, and swelling. Overexposure may cause lacrimation, conjunctivitis, corneal damage and permanent injury.

4.3. Indication of any immediate medical attention and special treatment needed

Treatment should be controlled by symptoms and clinical conditions.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

Extinguish with carbon dioxide or dry powder.

Unsuitable extinguishing media

Avoid water in straight hose stream, which will scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

Not determined.

Unusual Fire & Explosion Hazards

Sealed containers at elevated temperatures may rupture explosively and spread fire due to polymerization.

Specific hazards

The product is flammable, and heating may generate vapours which may form explosive vapour/air mixtures.

5.3. Advice for firefighters

Special Fire Fighting Procedures

Evacuate area of unprotected personnel. Fight advanced or massive fires from safe distance or protected location. Use water to keep fire exposed containers cool and disperse vapours. Keep run-off water out of sewers and water sources.

Dike for water control.

Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire. Extinguish at a up wind place.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

For personal protection, see section 8. Avoid inhalation of vapours and aerosol spray. Avoid contact with skin and eyes. Follow precautions for safe handling described in this safety data sheet.

6.2. Environmental precautions

The product belongs to water pollutant. Do not discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Well ventilated and well protected.

【1】 Small Spillages: Collect the spillages into a closed container. Absorb with inert, damp, non-combustible material, then transit to a safety place.

【2】 Large Spillages: Stop the flow of material if this is without risk. Dike the spilled material. Cover with plastic sheet to prevent spreading. Pump or shovel to storage or salvage vessels. Prevent entry into waterways, sewer, basements or confined areas.

【3】 Caution: collect spill with a non-sparking tool. Flammable, eliminate ignition sources. Vapors can flow along surfaces to distant ignition sources and flash back.

【4】 Other Precautions: add inhibitor to prevent polymerization.

6.4. Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

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7.1. Precautions for safe handling

Provide good ventilation. Avoid breathing vapor, aerosol or mist. Avoid contact with eyes and skin. Material will accumulate static charges which may cause an electrical spark(ignition source). Use proper grounding procedures. Do not reuse containers without proper cleaning or reconditioning.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated area. Keep away from heat, sparks and open flame. Combustible materials. Avoid direct sunlight. Keep away from Incompatible materials. Keep container tightly sealed when not in use.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
Methacrylic Acid	WEL	20 ppm	72 mg/m ³	40 ppm	143 mg/m ³	
Methyl Methacrylate	WEL	50 ppm	208 mg/m ³	100 ppm	416 mg/m ³	

WEL = Workplace Exposure Limit.

8.2. Exposure controls

Protective equipment



Process conditions

Provide eyewash, quick drench.

Engineering measures

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

Respiratory equipment

Wear respiratory protection with combination filter at high concentration. At emergency, respiratory protection with air supply must be use.

Hand protection

Use suitable protective gloves if risk of skin contact.

Eye protection

Wear tight-fitting goggles or face shield.

Other Protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures

Wash thoroughly after handling. Form a good habit.

Personal protection

People unprotected as required are not allowed into the work area.

Skin protection

Wear apron or protective clothing in case of contact.

Environmental Exposure Controls

Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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9.1. Information on basic physical and chemical properties

Appearance	Paste
Colour	Milky.
Odour	Acid.
Solubility	Not determined.
Initial boiling point and boiling range (° C)	
Not determined.	
Melting point (° C)	
Not determined.	
Relative density	1.03 20°C
Vapour density (air=1)	
Not determined.	
Vapour pressure	
Not determined.	
Evaporation rate	
Not determined.	
Evaporation Factor	
Not determined.	
pH-Value, Diluted Solution	
Not determined.	
Decomposition temperature (° C)	
Not determined.	
Flash point (° C)	10 °C TCC (Tag closed cup).
Auto Ignition Temperature (° C)	
Not determined.	
Flammability Limit - Lower(%)	
Not determined.	
Flammability Limit - Upper(%)	
Not determined.	
Partition Coefficient (N-Octanol/Water)	
Not determined.	

9.2. Other information

No information required.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No information.

10.2. Chemical stability

Unstable.

10.3. Possibility of hazardous reactions

Hazardous Polymerisation

Polymerization may occur under certain conditions.

10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition. Incompatible materials. Oxidizers. Oxygen-free atmospheres. Inert gas blanketing. Oxidizing conditions. Freezing conditions. Material can soften paint and rubber.

10.5. Incompatible materials

Materials To Avoid

Oxidizing agents(eg peroxides, nitrates). Reducing agents. Acid. Bases. Azo-compounds. Catalytic metals. Halogens. Free radical initiators. Oxygen scavengers.

10.6. Hazardous decomposition products

Not determined.

SECTION 11: TOXICOLOGICAL INFORMATION

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11.1. Information on toxicological effects

Health Warnings

Prolonged skin contact may lead to burning associated with severe reddening, swelling, and possible tissue destruction.

Route of entry

Eyes. Skin. Inhalation. Ingestion.

Target Organs

Eyes Skin Respiratory system. Digestive system. Liver Kidneys Olfactory.

Medical Symptoms

Overexposure can cause headaches, dizziness, nausea, and vomiting.

Specific effects

Individuals with pre-existing skin disorders, asthma, or known sensitization may be more susceptible to the effects of this product.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

There are no data on the ecotoxicity of this product.

12.1. Toxicity

No related data.

12.2. Persistence and degradability

No information.

12.3. Bioaccumulative potential

Bioaccumulative potential

No data available on bioaccumulation.

Partition coefficient

Not determined.

12.4. Mobility in soil

Mobility:

no reports available

12.5. Results of PBT and vPvB assessment

Not determined.

12.6. Other adverse effects

No information required.

SECTION 13: DISPOSAL CONSIDERATIONS

General information

Read the legal and other requirements before disposing of the waste.

13.1. Waste treatment methods

【1】 Waste from residues or unused products:

Recycling as much as possible. If not be recycled, arrange disposal of residual chemicals and contaminated containers in accordance to the state and local regulations.

Do not employ the disposal method by discharging into the sewer.

【2】 Contaminated Packaging:

Do not reuse containers without proper cleaning or reconditioning.

The container shall be returned to the manufacturer or disposed of in accordance with state and local guidelines.

【3】 Precaution When Disposal:

Safety precautions of disposal, see section 8.

The product shall be treated as hazardous waste even if it is discarded on the condition not used or contaminated.

Rags, steel wool and waste soaked with this product may spontaneously catch fire if improperly discarded or stored.

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SECTION 14: TRANSPORT INFORMATION

General Read safety instructions, SDS and emergency procedures before handling.

14.1. UN number

1133

14.2. UN proper shipping name

ADHESIVES containing flammable liquid

14.3. Transport hazard class(es)

3

Transport Labels



14.4. Packing group

II

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant
No.

14.6. Special precautions for user

Read safety instructions, SDS and emergency procedures before handling.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No information required.

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Legislation

- 【1】 Regulation (EC) No 1272/2008 - classification, labelling and packaging of substances and mixtures
- 【2】 Regulation (EC) No 1907/2006 - REACH
- 【3】 TOXIC SUBSTANCES CONTROL ACT
- 【4】 International Maritime Dangerous Goods Code

Health and Environmental Listings

- 【1】 Law of the People's Republic of China on Prevention and Control of Occupational Diseases
- 【2】 Measures for Environmental Management of New Chemical Substances
- 【3】 National Catalogue of Hazardous Waste
- 【4】 Occupational exposure limits for hazardous agents in the workplace-Chemical hazardous agents.

15.2. Chemical Safety Assessment

A chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms used in the safety data sheet

- 【1】 MAC: Maximum Allowable Concentration.
- 【2】 TLV: Threshold Limit Value.

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- 【3】 PC-TWA: Permissible Concentration-Time Weighted Average.
- 【4】 PC-STEL: Permissible Concentration-Short Term Exposure Limit.
- 【5】 IARC: International Agency for Research on Cancer.
- 【6】 ACGIH: American Conference of Governmental Industrial Hygienists.

General information

Only trained personnel should use this material.

Information Sources

【1】 Source for PHYSICAL HAZARDS:

International Chemical Safety Cards, ICSCs, <http://www.ilo.org/dyn/icsc/showcard.home>
International Uniform Chemical Information Database, IUCLID, <http://esis.jrc.ec.europa.eu/>
NIOSH Pocket Guide to Chemical Hazards, <http://www.cdc.gov/niosh/npg>
CAMEO Chemicals, <http://cameochemicals.noaa.gov/>

【2】 Source for HEALTH HAZARDS:

Environmental Health Criteria, EHC, <http://www.inchem.org/pages/ehc.html>
Concise International Chemical Assessment Documents , CICADs, <http://www.inchem.org/pages/cicads.html>
SIDS Initial Assessment Report, SIDS Report, <http://www.chem.unep.ch/irptc/sids/OECD/SIDS/sidspub.html>
International Agency for Research on Cancer, IARC, <http://monographs.iarc.fr/>

【3】 Source for ENVIRONMENTAL HAZARDS:

OECD: SIDS <http://www.chem.unep.ch/irptc/sids/OECD/SIDS/sidspub.html>
WHO/IPCS: EHC <http://www.inchem.org/pages/ehc.html>

Revision Comments

Section 2-HAZARDS IDENTIFICATION, add GHS classification and pictogram

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Signature	ITW Performance Polymers (Wujiang) Co. Ltd.

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