

SAFETY DATA SHEET



Product Name: Refrax Mounting Medium

Date: April 1, 2020

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SECTION 1: IDENTIFICATION

Product: Refrax Mounting Medium

Product number: 711

Synonyms: Coverslipping mounting medium

Recommended use: Laboratory chemical

Company

Anatech Ltd 1020 Harts Lake Road Battle Creek, MI 49037, USA	24 hour Transportation Emergency Product Technical Information Supplier General Contact	800.424.9300 CHEMTREC 800.262.8324, M-F, 8 AM-5 PM, ET 800.262.8324, M-F, 8 AM-5 PM, ET
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SECTION 2: HAZARD(S) IDENTIFICATION

Classification of substance

Flammable liquid (Category 2)

Skin corrosion/irritation (Category 2)

Eye damage/irritation (Category 2)

Reproductive toxicity (Category 2)

Specific target organ toxicity, single exposure (Category 3) (central nervous system, respiratory system)

Specific target organ toxicity, repeated exposure (Category 2) (kidney, liver, heart)

Aspiration toxicity (Category 1)

Signal word

Danger

Hazard statement

Highly flammable liquid and vapor.

Causes skin irritation.

Causes serious eye irritation.

Suspected of damaging fertility or the unborn child.

May cause drowsiness or dizziness.

May cause damage to organs (kidney, liver, heart) through prolonged or repeated exposure.

May be fatal if swallowed and enters the airways.

Pictogram



Precautionary statements

Prevention

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Use in a well-ventilated area.

Do not breathe mist/vapors/spray.

Wash exposed parts thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating and lighting equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

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Response

If exposed/concerned/feel unwell: Get medical advice/attention.

If on skin/hair: Immediately remove all contaminated clothing. Rinse skin with plenty of water/shower.

Wash contaminated clothing before reuse.

If skin irritation occurs: Get medical advice/attention.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do.

Continue rinsing for several minutes.

If eye irritation persists: Get medical advice/attention.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

If swallowed: Immediately call a poison center or doctor.

Do NOT induce vomiting.

Specific treatment: See Section 4 of this SDS.

In case of fire: Use alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.

Storage

Store in a well-ventilated place.

Keep container tightly closed.

Keep cool.

Store locked up.

Disposal

Dispose of contents/containers in accordance with governmental regulations.

Hazards not otherwise classified

None as defined under 29 CFR 1900.1200.

SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical name	CAS#	Concentration
Methacrylate resin	None assigned	30%
Toluene	108-88-3	70%

SECTION 4: FIRST-AID MEASURES

Description of first-aid measures

Inhalation	Remove victim to fresh air if coughing or difficulty in breathing is experienced. Consult a physician if symptoms persist or worsen. Administer oxygen or artificial respiration as needed.
Eye	Flush eyes for at least 15 minutes in an eyewash station. Consult a physician.
Skin	Remove contaminated clothing, including footwear; wash before reuse or discard. For minor exposure, wash affected area with water and mild soap, rinsing thoroughly. In cases of prolonged, repeated or extensive exposure, rinse affected area or entire body for at least 15 minutes. Consult a physician.
Ingestion	Call a poison center immediately.

Important symptoms, acute and delayed

May be fatal if swallowed and enters airways.

Causes skin and eye irritation.

May cause drowsiness or dizziness.

May cause damage to organs (kidney, liver, heart) through repeated exposure.

Suspected of damaging fertility or the unborn child.

Recommendations for immediate medical care and special treatment

See listed first-aid procedures. No information available for special treatment. Treat according to symptoms.

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SECTION 5: FIRE-FIGHTING MEASURES

Suitable and unsuitable extinguishing media

Use alcohol resistant foam, dry chemical, dry sand or carbon dioxide. Do not use water jet on the fire.

Specific hazards arising from the product

Hazardous products of combustion: carbon monoxide and carbon dioxide.

Special protective equipment/precautions for fire-fighters

Fire-fighters may wear self-contained breathing apparatus if necessary. Keep unopened containers cool by spraying with water. Accumulated vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Vapors can accumulate in low areas.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions

Ensure adequate ventilation.
Avoid inhalation of vapors.
Avoid contact with skin and eyes.
Remove all sources of ignition.
Take precautionary measures against static electricity.

Protective equipment

Wear protective gloves, impermeable aprons and splash-proof goggles.

Emergency procedures

Follow information listed in this section.

Methods and materials for containment and cleanup

Eliminate sources of ignition.
Ensure adequate ventilation.
Take precautionary measures against static electricity.
Use only non-sparking tools and explosion-proof equipment.
Contain and soak up spill with inert absorbent material.
Discard absorbents and other contaminated solids in a suitable trash receptacle.
Dispose absorbents and other contaminated solids as a hazardous waste.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes.
Avoid inhalation of vapors.
Wear protective gloves, impermeable aprons and splash-proof goggles.
Use with explosion-proof equipment.
Use proper grounding procedures when appropriate.

Conditions for safe storage including incompatibilities

Keep containers tightly closed in a dry and well-ventilated place.
Store at room temperature.
Flammable liquid.
Keep away from heat and sources of ignition.

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SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure limits

Chemical name	CAS#	Exposure Limit	Value
Methacrylate resin	None assigned	None established	
Toluene	108-88-3	ACGIH TLV (TWA) OSHA (8 hr TWA) OSHA (CEILING) OSHA (PEAK, 10 min.)	20 ppm 200 ppm 300 ppm 500 ppm

Appropriate engineering controls

Good general room ventilation should be provided so that exposure limits are not exceeded. If required provide local exhaust ventilation to control vapors. Use explosion-proof equipment.

Personal protective measures

Respiratory protection	When risk assessment shows one is necessary, wear respirator with organic vapor cartridge.
Eye protection	Use splash-proof goggles. Wear face shield if splashing hazard exists. An eyewash station must be nearby, no more than 10 seconds away.
Skin protection	Wear nitrile or chemical resistant gloves. Do not use latex surgical gloves for protection. Safety shower must be nearby, no more than 10 seconds away.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance	Slight yellow, viscous liquid
Odor	Characteristic aromatic odor
Odor threshold	No data available
pH	No information available
Melting point/freezing point	No information available
Initial boiling point and boiling range	42°F - 43°F
Flash point	46°F (7.8°C) closed cup
Evaporation rate	1.1 (Butyl acetate = 1)
Flammability (solid, gas)	Not applicable
Upper/lower flammability or explosive limits	8.2%/1.3%
Vapor pressure	15 mm Hg
Vapor density	3.5 (Air = 1)
Relative density	0.94 @ 21°C
Solubility(ies)	Insoluble in water
Partition coefficient: n-octanol/water	No information available
Auto-ignition temperature	No information available
Decomposition	No information available
Viscosity	No information available

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SECTION 10: STABILITY AND REACTIVITY

Reactivity

No hazardous reactions if stored and handled as indicated.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reaction

The product is chemically stable.

Conditions to avoid

Heat, flames and sparks.
Temperatures greater than flash point.

Incompatible materials

Strong oxidizing agents, strong acids.

Hazardous decomposition products

Carbon oxides can form under fire conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

Likely routes of exposure

Skin, eyes, inhalation.

Symptoms related to physical, chemical and toxicological characteristics

The following statements are based on data from 100% toluene. Product contains approximately 70% toluene.

Causes skin irritation.
Direct contact with eyes may cause eye irritation.
Vapors may cause drowsiness or dizziness.

Delayed and immediate effects

See symptoms listed above.

Chronic effects from short- and long-term exposure

Specific target organ toxicity, repeated exposure causes damage to organs (kidney, liver, heart).
Specific target organ toxicity, single exposure may cause drowsiness and dizziness.

Numerical measures of toxicity

The following data is for 100% toluene. Product contains approximately 70% toluene.

Acute toxicity, oral (rat)	LD ₅₀ : 5,580 mg/kg
Acute toxicity, inhalation (rat)	LC ₅₀ : 25.7 mg/l, 4 hrs
Acute toxicity, dermal (rabbit)	LD ₅₀ : >5,000 mg/kg

Assessment of other acute effects

Reproductive toxicity: suspected of damaging the unborn child.
Aspiration hazard: aspiration may cause pulmonary edema and pneumonitis.

Carcinogenicity

None as defined by 29 CFR 1900.1200.

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SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

The following data is for 100% toluene. Product contains approximately 70% toluene.

Test	Duration	Organism	Test Results
Toxicity-fish	96 hours	<i>Oncorhynchus kisutch</i> (coho salmon)	LC ₅₀ : 5.5 mg/l (flow thru test)
Toxicity-other	48 hours	<i>Ceriodaphnia dubia</i> (water flea)	EC ₅₀ : 3.78 mg/l

Persistence and degradability

Readily biodegradable (100% toluene): Aerobic exposure time 20 days; result: 86%.

Bioaccumulative potential

Bioaccumulation (100% toluene): *Leuciscus idus* (Golden orfe), 3 days, 0.05 mg/l.

Mobility in soil

No data available.

Other adverse effects

Toxic to aquatic life.

SECTION 13: DISPOSAL CONSIDERATIONS

Contact a licensed professional waste disposal service to dispose of this material. Proper waste disposal is the generator's responsibility. Follow federal, state (provincial) and local regulations.

SECTION 14: TRANSPORT INFORMATION

DOT (USA) and IATA

Proper Shipping Name: Resin solution
Identification Number: UN1886
Hazard Class: 3
Packing Group: II

Environmental hazard

Marine pollutant: No

SECTION 15: REGULATORY INFORMATION

OSHA Hazard Communication Standard

This product is considered hazardous in accordance with 29 CFR 1910.1200.

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SECTION 16: OTHER INFORMATION

NFPA (National Fire Protection Association) Rating

General note: The ratings provide information to emergency personnel on the fire hazards associated with the chemical. It is not descriptive of hazards under normal conditions of occupational use.

Health	2	Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
Flammability	3	Materials that can be ignited under almost all ambient temperature conditions.
Instability	0	Materials that in themselves are normally stable, even under fire conditions.

Disclaimer

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