

SAFETY DATA SHEET



Product Name: Refrax Mounting Medium

Date: June 19, 2017

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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)

Reproductive toxicity (Category 2)

Specific target organ toxicity, single exposure (Category 3) (narcotic effects)

Specific target organ toxicity, repeated exposure (Category 2) (central nervous system, kidney, peripheral nervous system)

Aspiration toxicity (Category 1)

Signal word

Danger

Hazard statement

Highly flammable liquid and vapor.

Causes skin irritation.

Suspected of damaging fertility or the unborn child.

May cause drowsiness or dizziness.

May cause damage to organs 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.

Avoid breathing mist/vapors/spray.

Wash skin 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 swallowed: Immediately call a poison center or doctor.

Do NOT induce vomiting.

If on skin/hair: Take off immediately all contaminated clothing. Rinse skin with plenty of water/shower.

Take off contaminated clothing and wash it before reuse.

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

If skin irritation occurs: Get medical advice/attention.

Specific treatment: See Section 4 of this SDS.

In case of fire: Use water spray, 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
Acrylic resin	None assigned	*
Toluene	108-88-3	<70%
Plasticizer	*	≤5%
Anti-oxidant	*	<1%

*As per paragraph (i) of 29 CFR 1910.1200, formulation is considered a trade secret and specific chemical identity and exact percentage (concentration) have been withheld. Specific chemical identity and exact percentage composition will be provided to health professionals in accordance with applicable provisions of paragraph (i).

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 irritation.

May cause drowsiness or dizziness.

May cause damage to organs through repeated exposure.

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 water spray, alcohol resistant foam, dry chemical or carbon dioxide.

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.
Eliminate sources of ignition.
Take precautionary measures against static electricity.

Protective equipment

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

Emergency procedures

See information in sub-section above.

Methods and materials for containment and cleanup

Eliminate sources of ignition.
Provide 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.
Keep away from heat and sources of ignition.
Flammable liquid.

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SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure limits

Chemical name	CAS#	Exposure Limit	Value
Acrylic resin	None assigned	None established	
Toluene	108-88-3	ACGIH TLV (TWA) OSHA (8 hr TWA) OSHA STEL	20 ppm 200 ppm 300 ppm
Plasticizer	Trade secret	None established	
Anti-oxidant	Trade secret	None established for solution	

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.

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	No information available
Flash point	52°F (11.1°C) closed cup
Evaporation rate	No information available
Flammability (solid, gas)	No information available
Upper/lower flammability or explosive limits	No information available
Vapor pressure	No information available
Vapor density	No information available
Relative density	No information available
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

SECTION 10: STABILITY AND REACTIVITY

Reactivity

No hazardous reactions if stored and handled as indicated.

Chemical stability

Stable under recommended storage conditions.

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Possibility of hazardous reaction

The product is chemically stable.

Conditions to avoid

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

Incompatible materials

Strong oxidants, 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

Causes skin irritation.
Direct contact with eyes may cause temporary eye irritation.

Delayed and immediate effects

See information in sub-section above.

Chronic effects from short- and long-term exposure

Specific target organ toxicity, repeated exposure causes damage to organs (central nervous system, kidney, peripheral nervous system).
Specific target organ toxicity, single exposure may cause drowsiness and dizziness.

Numerical measures of toxicity

The following data are for 100% toluene.

Acute toxicity, oral (rat)	LD ₅₀ : 2.6 g/kg
Acute toxicity, inhalation (rat)	LC ₅₀ : 8,000 ppm, 4 hrs
Acute toxicity, dermal (rabbit)	LD ₅₀ : 14.1 ml/kg

Assessment of other acute effects

Experiments have shown reproductive toxicity effects in male and female laboratory animals.

Carcinogenicity

None as defined by 29 CFR 1900.1200.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

The following data are from studies using 100% toluene.

Test	Duration	Organism	Test Results
Toxicity-fish	96 hours	<i>Oncorhynchus mykiss</i>	LC ₅₀ : 7.63 mg/l
	7 days	<i>Pimephales promelas</i>	No observed effect concentration 5.44 mg/l
Toxicity-aquatic invertebrates	24 hours	<i>Daphnia magna</i>	EC ₅₀ : 8.0 mg/l
Toxicity-algae	24 hours	<i>Chlorella vulgaris</i>	EC ₅₀ : 245.0 mg/l
	24 hours	<i>Pseudokirchneriella subcapitata</i>	EC ₅₀ : 10.0 mg/l

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Persistence and degradability

100% toluene: readily biodegradable.

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: UN1866

Hazard Class: 3

Packing Group: II

Marine pollutant

No information available.

SECTION 15: REGULATORY INFORMATION

OSHA Hazard Communication Standard

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

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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Date of preparation

June 19, 2017