RES-TEK
Acrylic Flooring & Concrete Repair Solutions

RT-05 LTF
Polymer Concrete Liquid

SAFETY DATA SHEET
OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Chemical Name	Mixture
Product Name **/** Trade Name	RT-05 LTF Polymer Concrete Liquid
CAS No.	Mixture

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

Identified Use(s)	Industrial Flooring Resin
Uses Advised Against	None

Details of the supplier of the safety data sheet

Company Identification	Res-Tek, Inc. 110 Riverside Drive Cartersville, Georgia 30120 United States of America
Telephone	1-888-737-8351 / 1-770-427-4034

Emergency telephone number — CHEMTREC 24 hr. 1-800-424-9300 / 1 (703) 527-3887 (Collect calls accepted)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200) — Flam. Liq. 2; Skin Irrit. 2; Skin Sens. 1; STOT SE 3; STOT RE (Oral) 2; Carc. 2; Aquatic Acute 3

Label elements

Hazard Symbol

Signal Word(s) — **DANGER**

Hazard Statement(s)

Highly flammable liquid and vapor.

Causes skin irritation.

May cause an allergic skin reaction.

May cause respiratory irritation.

May cause damage to organs through prolonged or repeated exposure (Oral): liver, kidneys, nose, lung, bone marrow, and mesenteric lymph node.

Suspected of causing cancer.

Harmful to aquatic life.

Precautionary Statement(s)

Obtain special instructions before use.

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

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Take precautionary measures against static discharge.

Ground/bond container and receiving equipment.

Use only non-sparking tools.
Use explosion-proof electrical/ventilating/lighting/equipment.
Keep container tightly closed.
Wear protective gloves/eye protection/face protection.
Do not breathe dust/fume/gas/mist/vapours/spray.
Wash hands and exposed skin after use.
Contaminated work clothing should not be allowed out of the workplace.
Avoid release to the environment.

Other hazards None
Additional Information None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Composition/information on ingredients	%W/W	CAS No.	Hazard Statement(s)
Methyl methacrylate	75 - 95	80-62-6	Flam. Liq. 2; H225 Skin Irrit. 2; H315 Skin Sens. 1; H317 STOT SE 3; H335 Aquatic Acute 3; H402
Proprietary acrylic polymer	0.5 - 20	Trade Secret	Skin Sens. 1B; H317 Aquatic Acute 2; H401
N,N-dimethyl-p-toluidine	< 5	99-97-8	Acute Tox. 4; H302, H332 Carc. 2; H351 STOT RE 2; H373 Aquatic Acute 3; H402 Aquatic Chronic 3; H412

For full text of H phrases see section 16.

Additional Information - None

SECTION 4: FIRST AID MEASURES

Description of first aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is labored, administer oxygen. If symptoms persist, obtain medical attention.
Skin Contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. If irritation (redness, rash, blistering) develops, get medical attention. Wash contaminated clothing before reuse.
Eye Contact	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.
Ingestion	Get medical advice/attention if you feel unwell. Treat symptomatically.
Most important symptoms and effects, both acute and delayed	May cause an allergic skin reaction.
Indication of any immediate medical attention and special treatment needed	None anticipated.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

-Suitable Extinguishing Media	Extinguish with water spray, dry chemical, sand or carbon dioxide.
-Unsuitable Extinguishing Media	None anticipated.

Special hazards arising from the substance or mixture — None anticipated.

Advice for fire-fighters — Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures — Eliminate all ignition sources if safe to do so. Put on protective equipment before entering danger area. Wear protective gloves/protective clothing/eye protection/face protection. In case of inadequate ventilation wear respiratory protection.

Environmental precautions — Contain spillages with sand, earth or any suitable adsorbent material. Do not allow to enter drains, sewers or watercourses.

Methods and material for containment and cleaning up — Contain spillages with sand, earth or any suitable adsorbent material. Transfer to a container for disposal or recovery. Wash the spillage area with water. If possible prevent water running into sewers.

Reference to other sections — None
Additional Information — None

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling — Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Ground/bond container and receiving equipment. Use only non-sparking tools. Use explosion-proof electrical / ventilating / lighting / equipment. Keep container tightly closed. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands and exposed skin after use. Do not breathe dust / fume / gas / mist / vapors / spray. Contaminated work clothing should not be allowed out of the workplace. Work in well ventilated zones or use proper respiratory protection.

Conditions for safe storage, including any incompatibilities

-Storage temperature	Store at room temperature. Keep container tightly closed and in a well-ventilated place. Keep away from heat and sources of ignition.
-Incompatible materials	Strong oxidising agents and amines.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational Exposure Limits

SUBSTANCE.	CAS No.	(8hr TWA)		(STEL)		Note:
		PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	
Methyl methacrylate	80-62-6	100 ppm	50 ppm	-----	100 ppm	-----

- TWA: Time Weighted Average; PEL: Permissible Exposure Limite; TLV: Threshold Limit Value; STEL: Short Term Exposure Limit

Exposure controls

Appropriate engineering controls	Work in well ventilated zones or use proper respiratory protection.
Personal protection equipment	
Eye/face protection	Wear protective eyewear (goggles, face shield, or safety glasses).
	
Skin protection (Hand protection/ Other)	Gloves (Butyl rubber). Check with protective equipment manufacturer's data. Gloves should be changed regularly to avoid permeation problems.
 	
Respiratory protection	In case of inadequate ventilation wear respiratory protection. Air-purifying respirator with organic vapor cartridges may provide sufficient protection. Check with protective equipment manufacturer's data.
	
Thermal hazards	Not normally required.
Environmental Exposure Controls	Do not allow to enter drains, sewers or watercourses.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Liquid
Color.	Clear.
Odor	Sweet ester like.
Odor Threshold (ppm)	0.05 – 0.34.
pH (Value)	Not applicable.
Melting Point (°C) / Freezing Point (°C)	- 48 (-54 °F).
Boiling point/boiling range (°C):	100 (212 °F).
Flash Point (°C)	10 (50°F) (Closed Cup).
Evaporation Rate	3.1 (Butyl Acetate = 1).
Flammability (solid, gas)	Not applicable.
Explosive Limit Ranges	Flammable Lower Limit = 2.1. Flammable Upper Limit = 12.5.
Vapour pressure (mmHg)	27 @ 20°C (68°F)
Vapour Density (Air=1)	3.5.
Density (g/ml)	0.93 at 20 °C (68°F) (7.8 lb/gal at 20 °C).
Specific Gravity	0.93.
Solubility (Water)	Slightly soluble.
Solubility (Other)	Miscible with most organic solvents.
Partition Coefficient (n-Octanol/water)	Not available.
Auto Ignition Point (°C)	435 (815°F).
Decomposition Temperature (°C)	Not available.
Kinematic Viscosity (cSt)	> 20.5
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Other information	None.

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions.
Chemical stability	Stable.
Possibility of hazardous reactions	Not to be expected.
Conditions to avoid	Incompatible materials.

Incompatible materials	Strong oxidising agents and amines.
Hazardous decomposition product(s)	Combustion or thermal decomposition will evolve toxic and irritant vapours; acrid smoke.

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Ingestion, Inhalation**,** Skin Contact**,** Eye Contact

Information on toxicological effects

Acute toxicity (estimated / calculated)	Oral: LD50: > 2000 mg/kg (rat) Dermal: LD50: > 2000 mg/kg (rat)
Corrosivity / Irritation	Causes skin irritation. May cause respiratory irritation.
Sensitization	May cause sensitization by skin contact.
Repeated dose toxicity	May cause damage to organs through prolonged or repeated exposure (Oral): liver, kidneys, nose, lung, bone marrow, and mesenteric lymph node.
Mutagenicity	Not to be expected.
Carcinogenicity	Suspected of causing cancer. Contains: N,N-dimethyl-p-toluidine (CAS No. 99-97-8, <5 %)

NTP	IARC	ACGIH	OSHA
*Yes	*Yes	No.	No.

* Contains: N,N-dimethyl-p-toluidine (CAS No. 99-97-8, <5 %) which NTP and IARC considers to be carcinogenic to animals, but not yet listed in NTP and IARC reports on carcinogenicity.

Toxicity for reproduction	Not to be expected.
Other information	None.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Acute toxicity (estimated / calculated)	LC50 (96 hour): > 100 mg/l (Fish) EC50 (48 hour): 10 - 100 mg/l (Daphnia magna)
Long Term Toxicity	Not to be expected.
Persistence and degradability	The harmful ingredients are biodegradable.
Bioaccumulative potential	The product has no potential for bioaccumulation.
Mobility in soil	The product has low mobility in soil.
Results of PBT and vPvB assessment	Not classified as PBT or vPvB.
Other adverse effects	None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods	Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.
Additional Information	None known.

SECTION 14: TRANSPORT INFORMATION

	Land transport (U.S. DOT)	**Sea transport (IMDG)**	**Air transport (ICAO/IATA)**

UN number	UN 1866	UN 1866	UN 1866
Proper Shipping Name	Resin Solution	Resin Solution	Resin Solution
Transport hazard class(es)	3	3	3
Packing group	II	II	II
Environmental hazards	Yes *	No	No
Special precautions for user	None assigned	None assigned	None assigned

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

* Reportable Quantity (RQ) substance

SECTION 15: REGULATORY INFORMATION

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

TSCA (Toxic Substance Control Act) - Inventory Status**:** All components listed or polymer exempt.

Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
Methyl methacrylate	80-62-6	75 - 95	1000

SARA 311/312 - Hazard Categories: See SECTION 2 - HAZARDS IDENTIFICATION

SARA 313 - Toxic Chemicals (40 CFR 372):

Chemical Name	CAS No.	Typical %wt.
Methyl methacrylate	80-62-6	75 - 95

SARA 302 - Extremely Hazardous Substances(40 CFR 355):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)	TPQ (Pounds)
None	-----	-----	-----	-----

Proposition 65 (California):

Chemical Name	CAS No.	Typical %wt.	Hazards
N,N-dimethyl-p-toluidine	99-97-8	<5	Cancer

⚠ **WARNING:** This product can exposure you to N,N-dimethyl-p-toluidine, which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1 - 16

Date of preparation: May 10, 2019

Hazard Statement(s) Listed in: SECTION 3

H225: Highly flammable liquid and vapor.
H302: Harmful if swallowed.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H332: Harmful if inhaled.
H335: May cause respiratory irritation.
H351: Suspected of causing cancer.
H373: May cause damage to organs through prolonged or repeated exposure.
H401: Toxic to aquatic life.
H402: Harmful to aquatic life.
H412: Harmful to aquatic life with long lasting effects.

Additional Information: None.