

Material Safety Data Sheet

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Res-Tek Inc.
110 Riverside Drive
Cartersville, Georgia 30120
Non-Emergency Product Information: 1-888 / 737.8351
Emergency Only (Chemtrec): 1-800 / 424-9300

1. PRODUCT INFORMATION

Trade Names / Synonyms: **Res-Tek[®] RT-805 Overlay Resin** (UN 1866)
Chemical Name: Solution of polymers dissolved in acrylate monomer
Chemical Family: Acrylic resins
Chemical formula: Mixture **Product Use:** Industrial Flooring Resin

2. COMPOSITION, INFORMATION ON INGREDIENTS

Substance Description	Weight Percent	CAS#	Exposure Guidelines	
			OSHA (PEL)	ACGIH
Methyl methacrylate	60.0-80.0	80-62-6	100 ppm TWA	50 ppm TWA; 100 ppm STEL(15 min.)
Proprietary acrylic polymer	10.0-25.0	proprietary	Not established	Not established
Methacrylic acid ester	2.0-6.0	proprietary	Not established	Not established
Proprietary ester diluents	2.0-10.0	proprietary	Not established	Not established
Substituted tertiary amine	0.0-4.0	proprietary	Not established	Not established

3. HAZARDS IDENTIFICATION

Low viscosity, highly turbid liquid with a sweet ester odor.
Flammable liquid and vapor. May be ignited by heat, sparks or flame.
Vapors may travel to source of ignition and flash back.
May cause irritation to the eyes, skin and respiratory tract.
When heated, formation of explosive vapor/air mixtures.
Danger of bursting of closed system due to vigorous exothermic polymerization. Avoid uncontrolled polymerization.
Container may explode if heated.

4. FIRST AID PROCEDURES

EYE CONTACT: May cause eye irritation. In case of contact, flush eyes with running water for at least 20 minutes. Hold eyelids apart during flushing to insure rinsing of the entire surface of the eye with water. Call a physician if irritation persists. **Do not wear contact lenses when using this product.**

SKIN CONTACT: May cause irritation and sensitization of the skin. In case of contact, wash skin with soap and water. If irritation persists, call a physician.

SKIN ABSORPTION: Not expected to be absorbed through the skin in toxic amounts. In case of contact, flush skin with soap and water.

INHALATION: May cause irritation to the respiratory tract. If inhaled and irritation occurs, move victim to fresh air. If irritation persists, call a physician. Apply artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult.

INGESTION: Expected to be slightly toxic by ingestion. If swallowed, call physician immediately.

CHRONIC EFFECTS OF OVEREXPOSURE: No chronic (long-term) effects are known for humans.

OTHER HEALTH EFFECTS: Medical conditions which may be aggravated by exposure to this product include: Conjunctivitis of the eye, dermatitis of the skin, asthma and respiratory diseases.

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5. FIRE FIGHTING MEASURES AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD): 48 deg-F (9 deg-C) (Setaflash Closed Cup) (of MMA)

FLAMMABILITY LIMITS: Lower: 2.1% (21,000 ppm) Upper: 12.5% (125,000 ppm)
(Vol. & air, 1 bar, 68 deg-F)

EXTINGUISHING MEDIA: Small fires – Use water mist, carbon dioxide, alcohol resistant foam, dry chemical or cover with sand.
Large fires – Water spray, fog or alcohol resistant foams. **Do not use straight streams.** Move containers from fire area if it can be done without risk.

FIRE FIGHTING INSTRUCTIONS:

Evacuate enclosed and surrounding areas. If smoke and fumes cannot be avoided, use proximity suits and self-contained breathing apparatus. Use water spray to cool containers and disperse vapors. Keep spills away from sources of ignition.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Vapor is heavier than air and forms explosive mixture with air. Never use welding or cutting Torches on or near containers or drums (even when empty). Product residue or vapor in drums or container can ignite explosively. Cool warm or bulging containers to ambient temperature with water from a safe distance. Then wear eye and face protection and protective clothing While carefully opening bung to vent pressure.

HAZARDOUS

PRODUCTS/COMBUSTION: Thermal decomposition may yield water, carbon dioxide, carbon monoxide, or acrid fumes.

6. ACCIDENTAL RELEASE MEASURES

ACTIONS TO TAKE FOR SPILLS/LEAKS:

See Sections 4, 8 and 11 for hazards and exposure controls. Dike with sand or earth to contain spill. Wear personal protective equipment discussed in section 8. **ELIMINATE** all ignition sources. All equipment used when handling the product must be grounded. Stop leak if you can do so without Risk. Prevent entry into waterways, sewers, basements, or confined areas. Absorb with sand or other non-flammable absorbent material and transfer to approved container (see Section 14) for disposal.

7. PRECAUTIONS FOR SAFE HANDLING AND STORAGE

STORAGE:

Store only in original containers in a cool, dry, well-ventilated area away from sources of ignition. Limit storage of flammable liquids to approved areas equipped with overhead sprinklers. Do not Smoke in the vicinity of material. Keep storage containers from direct sunlight. Protect material from contamination (refer to Section 8 for incompatibilities). Keep containers tightly closed when not in use. **Maximum storage temperature is 95 deg-F (35 deg-C).**

HANDLING:

product is supplied in a stabilized form. Stir well before decanting from drum. Open container Carefully as it may be pressurized. Use portable ventilation if necessary at job site. Ground containers when pouring or transferring and keep closed when not in use. Use explosion-proof equipment. Do not eat, drink, smoke, or chew tobacco around material.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

EYE PROTECTION:

Eye protection with side shields is recommended.

PROTECTIVE GLOVES:

General use chemical resistant gloves (e.g. neoprene) are recommended to protect the skin from drying and irritation.

RESPIRATORY:

Atmospheric levels should be maintained below the exposure limits listed in Section 11 by using engineering controls. If not feasible, use a MSHA/NIOSH approved organic vapor respirator. When using respirator cartridges or canisters, change often as recommended to assure breakthrough exposure does not occur. Eye wash facility and emergency shower should be readily accessible.

OTHER PROTECTION:

If repeated or prolonged skin contact or contamination is likely, protective clothing should be worn.

VENTILATION:

Provide general and/or local exhaust ventilation to maintain airborne levels below the exposure limits in Section 11. Refer to "Industrial Ventilation" by ACGIH for a manual of recommended practices.

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PERSONAL HYGIENE/

WORK PRACTICES: Establish good personal hygiene and work practices. Always wash hands and face before eating, drinking, or smoking

9. CHEMICAL AND PHYSICAL PROPERTIES

BOILING POINT: 212 deg-F(100 deg-C) at 14.5 psi (of MMA)
MELTING POINT: -54 deg-F (-48 deg-C) at 14.5 psi (of MMA)
SOL. IN WATER: 16.0 g/l (of MMA)
VAPOR PRESSURE: 37.8 mm Hg at 68 deg-F (20 deg-C) (of MMA)
AUTO IGNITION TEMP: 806 deg-F (430 deg-C)
FLASH POINT; 48 deg-F (9 deg-C) Setaflash Closed Cup at 14.5 psi (of MMA)
APPEARANCE/ODOR: Low viscosity, blue tinted, highly turbid liquid with a sweet ester odor
DENSITY 68 deg-F(20 deg-C): 8.16 lb./gal (0.98 g/cc)
VAPOR DENSITY: >1 (of MMA) {Air=1}
SPECIFIC GRAVITY: 0.97
EVAPORATION RATE: >1 (Butyl Acetate = 1)
VISCOSITY 68 deg-F (20 deg-C): 36 sec No. 4 ISO Beaker

10. STABILITY AND REACTIVITY

STABILITY: This product is stable.

INCOMPATIBILITY: Peroxides, amines, sulfur compounds, heavy metal ions and alkalis, reducing agents and oxidizing agents

HAZARDOUS PRODUCTS OF DECOMPOSITION:

None known.

HAZARDOUS POLYMERIZATION: May occur when exposed to excessive heat or contaminated with incompatible materials.

CONDITIONS TO AVOID: Heat and ignition sources, aging, contamination, oxygen free atmosphere.

11. TOXICOLOGICAL INFORMATION

CHEMICAL NAME	Toxicity Data		Exposure Limits		
	LD50-oral	LD50-dermal	LC50	PEL	TLV
Methyl methacrylate	7872 mg/kg, rat	>9400 mg/kg rabbit	29.5 mg/l/4 hr.rat	100ppm	100 ppm
Proprietary acrylic polymer	Not established	Not established	Not established	None	None
Methacrylic acid ester	Not established	Not established	Not established	None	None
Proprietary ester diluent	3700 mg/kg, rat	Not established	Not established	None	None
Substituted tertiary amine	100 mg/kg, rat	Not established	Not established	None	None
Carcinogenicity:					
IARC.....No	OSHANo				
NTPNo	ACGIH.....No				

12. ECOLOGICAL INFORMATION

GENERAL: ----CERCLA/SARA requires notification to the appropriate Federal, state, and local authorities of releases hazardous or extremely hazardous quantities equal to or greater than the Reportable Quantities (RQs) in 40 CFR 302.4 and 40 CFR 355.
----SARA Title 313 requires submissions of annual reports of releases of toxic chemicals that appear in 40 CFR 372. Components presents in this product at a level that could require reporting under statute are listed in Section 16.

13. DISPOSAL CONSIDERATIONS:

DISPOSAL METHOD: Containers are still hazardous when empty. **DO NOT CUT WITH TORCH!** Product residue is flammable and hazardous. Do not reuse containers. Dispose of in accordance with all local, state and federal regulations. Contact Res-Tek Inc. at (888) 737-8351 for assistance with disposal requirements.

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14. TRANSPORT INFORMATION

PRIMARY HAZARD: Flammable Liquid **SECONDARY HAZARD:** None

DOT SHIPPING NAME: Resin Solution

HAZARD CLASS: Flammable Liquid **UN#:** 1866 **UN CLASS:** 3.0 **PG#:** II

49 CFR REFERENCE: 173.202, 173.242 (HM-181)

LABEL(S): Flammable Liquid **PLACARD(S):** Flammable Liquid

IATA SHIPPING RESTRICTIONS: Passenger aircraft – 5 liters maximum per package.
Cargo only aircraft – 60 liters maximum per package.

AUTHORIZED CONTAINER TYPE(S): See 49 CFR section 173.202, 173.242 (HM-181)

15. REGULATORY INFORMATION

Substance Description	DSL	TSCA	MA	NJ-RTK	PA	FL	CA	MN	RI	SARA
Methyl methacrylate	L	L	L	sn 1277	L	L	L	L	L	L
Proprietary acrylic polymer	L	L	NL	NL	NL	NL	NL	NL	NL	NL
Methacrylic acid ester	L	L	NL	NL	NL	NL	NL	NL	NL	NL
Proprietary ester diluent	L	L	NL	NL	NL	NL	NL	NL	NL	NL
Substituted tertiary amine	L	L	NL	NL	NL	NL	NL	NL	NL	NL

DSL	Domestic Substances List – Canada	PA	Penn. Hazardous substance List	RI	Rhode Island Hazardous Substance List
TSCA	Toxic Substance control Act	FL	Florida Hazardous Substance List	SARA	SARA Title III, Section 313
MA	Massachusetts Substance List	CA	California-Directors List of Hazardous Sub.	L	Listed
NJ RTK	New Jersey Right to Know Hazard Sub.	MN	Minnesota Hazardous Substance List	NL	Not Listed

OTHER REGULATORY INFORMATION: WHMIS HAZARD CLASS: Class B, Div 2

NFPA HEALTH 2 NFPA REACTIVITY 2

NFPA FLAMMABILITY 3 NFPA OTHER 0

Hazard Index: 4-severe, 3-high, 2-moderate, 1-slight, 0-insignificant

16. ADDITIONAL INFORMATION

FOR INDUSTRIAL USE ONLY!
KEEP OUT OF REACH OF CHILDREN!
THRESHOLD ODOR LIMIT OF THIS PRODUCT IS LESS THAN 1 PPM.

CERCLA reporting: RQ = 1000# for Methyl methacrylate

THIS MATERIAL IS IN COMPLIANCE WITH THE TOXIC SUBSTANCES CONTROL ACT AND DOMESTIC SUBSTANCE LIST - CANADA

1996 North American Emergency Response Guide Number 127

For additional product safety or use information, contact Res-Tek Inc. at the address or phone number listed on page #1.

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