

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Chemical Name	Mixture
Product Name / Trade Name	MAC-Guard™ MAC-850 Semi-Flexible Overlay Resin
CAS No.	Mixture

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

Identified Use(s)	Industrial Deck 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; Eye Irrit. 2; Skin Sens. 1; STOT SE 3; STOT RE 2

Label elements

Hazard Symbol



DANGER

Signal Word(s)

Hazard Statement(s)

Highly flammable liquid and vapor.
Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
May cause respiratory irritation.
May cause damage to organs through prolonged or repeated exposure: oral, Kidneys

Precautionary Statement(s)

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.

Other hazards

Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Additional Information

None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Composition/information on ingredients	%W/W	CAS No.	Hazard Statement(s)
Methyl methacrylate	40 - 60	80-62-6	Flam. Liq. 2; H225 Skin Irrit. 2; H315 Skin Sens. 1; H317 STOT SE 3; H335
Proprietary acrylic polymer	15 - 40	Trade Secret	Not classified as dangerous for supply/use.
Proprietary ester-diluents	5 - 20	Trade Secret	Skin Sens. 1B; H317 STOT RE 2; H373 Aquatic Acute 2; H401
Butyl Methacrylate	5 - 20	97-88-1	Flam. Liq. 3; H226 Eye Irrit. 2; H319 Skin Irrit. 2; H315 Skin Sens. 1; H317 STOT SE 3; H335 Aquatic Acute 3; H402
Proprietary methacrylic acid ester	2 - 6	Trade Secret	Skin Sens. 1B; H317 Aquatic Acute 3; H402
Proprietary substituted tertiary amine	1 - 4	Trade Secret	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2A; H319 STOT SE 3; H335 Aquatic Acute 3; H402
Proprietary methacrylic acid esters	1 - 5	Trade Secret	Skin Sens. 1B; H317 Aquatic Acute 3; H402

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
- Unsuitable Extinguishing Media

Extinguish with water spray, dry chemical, sand or carbon dioxide.
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
Additional Information

None
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	-----
2,6-di-tert-butyl-p-cresol	128-37-0	-----	2 mg/m3	-----	-----	IFV

- STEL: Short Term Exposure Limit; IFV = Inhalable Fraction & Vapor

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.	Blue / Bluish
Odor	Sweet Ester-like
Odor Threshold (ppm)	Not available.
pH (Value)	Not available.
Melting Point (°C) / Freezing Point (°C)	- 48 (-54 °F)
Boiling point/boiling range (°C):	100 (212 °F)
Flash Point (°C)	9 (48°F)
Evaporation Rate	> 1 (Butyl acetate = 1)
Flammability (solid, gas)	Not applicable.
Explosive Limit Ranges	Not available.
Vapour pressure (mmHg)	37.8 @ 20°C
Vapour Density (Air=1)	Not available
Density (g/ml)	0.98 @ 20 °C (8.16 lb/gal @ 20 °C)
Specific Gravity	0.98
Solubility (Water)	Not available.
Solubility (Other)	Not available.
Partition Coefficient (n-Octanol/water)	Not available.
Auto Ignition Point (°C)	430 (806°F)
Decomposition Temperature (°C)	Not available.
Kinematic Viscosity (cSt)	~ 44.7 @ 20 °C (36 Sec. No. 4 ISO Beaker)

Explosive properties
Oxidizing properties

Not explosive.
Not oxidizing.

Other information

VOC Content: less than 100g/l

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: 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. Causes serious eye irritation. May cause respiratory irritation.
 Sensitization May cause sensitization by skin contact.
 Repeated dose toxicity Causes damage to organs through prolonged or repeated exposure: oral, Kidneys
 Mutagenicity Not to be expected.
 Carcinogenicity Not to be expected.

NTP	IARC	ACGIH	OSHA
No.	No.	No.	No.

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

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Acute toxicity (estimated / calculated) LC50 (96 hour): 1 - 10 mg/l (Fish)
EC50 (48 hour): 1 - 10 mg/l (Daphnia magna)
 Long Term Toxicity Not available.

Persistence and degradability

Not readily 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	40 - 50	1000

SARA 311/312 - Hazard Categories:

Fire Sudden Release Reactivity Immediate (acute) Chronic (delayed)

SARA 313 - Toxic Chemicals (40 CFR 372):

Chemical Name	CAS No.	Typical %wt.
Methyl methacrylate	80-62-6	40 - 50

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
None	-----	-----	-----

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1.

Date of preparation: April 24, 2018

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.

H319: Causes serious eye irritation.
H226: Flammable liquid and vapour.
H335: May cause respiratory irritation.
H373: May cause damage to organs through prolonged or repeated exposure.
H401: Toxic to aquatic life.
H402: Harmful to aquatic life.

Additional Information: None.

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