

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Chemical Name	Mixture
Product Name / Trade Name	EPO-Guard™ EPO-MVB Part B
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) Skin Corr. 1B; Eye Dam. 1; Skin Sens. 1; Acute Tox. 4; Repr. Tox. 2; STOT RE 1

Label elements

Hazard Symbol



DANGER

Signal Word(s)

Hazard Statement(s)

Harmful if swallowed.
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.
Suspected of damaging fertility or the unborn child.
Causes damage to organs through prolonged or repeated exposure.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe dusts or mists.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
Store locked up.

Precautionary Statement(s)

Other hazards

None.

Additional Information

None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Composition/information on ingredients	%W/W	CAS No.	Hazard Statement(s)
Phenol, styrenated	25 – 50	61788-44-1	Skin Irrit. 2; H315 Skin Sens. 1, H317
Polyoxypropylenediamine	25 – 50	9046-10-0	Skin Corr. 1C, H314 Eye Dam. 1, H318
3-aminomethyl-3,5,5-trimethylcyclohexylamine	25 – 50	2855-13-2	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Corr. 1B, H314 Skin Sens. 1A, H317
2-piperazin- 1-ylethylamine	2.5 – 10	140-31-8	Flam. Liq. 4; H227 Acute Tox. 4; H302 Acute Tox. 3; H311 Skin Corr. 1B; H314 Skin Sens. 1; H317 Eye Dam. 1; H318 Repro. Tox 2; H361 STOT RE 1; H372
2,4,6 -tris(dimethylaminomethyl)phenol	2.5 - 10	90-72-2	Skin Corr. 1C; H314 Skin Sens. 1; H317 Eye Dam. 1; H318

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. Get medical advice/attention.
Ingestion	Drink copious amounts of water and provide fresh air. Immediately gGet medical advice/attention. Treat symptomatically.
Most important symptoms and effects, both acute and delayed	No further relevant information available.

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, alcohol resistant foam, or carbon dioxide.
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-Unsuitable Extinguishing Media

Water jet.

Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

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

Put on protective equipment before entering danger area. Wear protective gloves/protective clothing/eye protection/face protection. Ensure adequate ventilation. In case of inadequate ventilation wear respiratory protection.

Environmental precautions

Do not allow to enter drains, sewers or watercourses. Do not allow to enter the ground/soil.

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

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 in original container. Keep container tightly closed and in a well-ventilated place.

-Incompatible materials

Strong oxidizing agents, alkali, and acids.

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)	
Phenol, styrenated	61788-44-1	----	----	----	----	----
Polyoxypropylenediamine	9046-10-0	----	----	----	----	----
3-aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2	----	----	----	----	----
2-piperazin- 1-ylethylamine	140-31-8	----	----	----	----	----
2,4,6 - tris(dimethylaminomethyl)phenol	90-72-2	----	----	----	----	----

- TWA: Time Weighted Average; PEL: Permissible Exposure Limit; 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, Nitrile Rubber, Fluorocarbon Rubber (Viton), PVC). 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. Do not allow to penetrate ground/soil.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Liquid.
Color.	Yellowish.
Odor	Amine like.
Odor Threshold (ppm)	Not available.
pH (Value)	Not available.
Melting Point (°C) / Freezing Point (°C)	Not available.
Boiling point/boiling range (°C):	>200 (>392°F)
Flash Point (°C)	>100 (>212°F)
Evaporation Rate	Not available.
Flammability (solid, gas)	Not applicable.
Ignition temperature (°C)	370 (698°F).
Decomposition temperature	Not determined.
Auto ignition	Product is not self igniting.
Danger of explosion	Product does not present an explosion hazard.
Explosive Limit Ranges	
LEL	1.0 Vol%
UEL	Not determined.
Vapour pressure (mmHg)	Not available.
Vapor Density (Air=1)	Not available
Density (g/ml)	0.99 @ 23 °C (8.262 lb/gal @ 23 °C)
Specific Gravity	0.99
Solubility (Water)	Not miscible or difficult to mix.
Solubility (Other)	Not available.
Partition Coefficient (n-Octanol/water)	Not available.
Dynamic Viscosity (cPs)	120 @ 25 °C
Other information	Not available.

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, alkali, and acids.

Hazardous decomposition product(s)

Combustion will evolve toxic gases and vapors.

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Inhalation, Skin Contact, Eye Contact

Information on toxicological effects

Acute toxicity (estimated / calculated)

Phenol, styrenated, CAS# 61788-44-1

Oral: LD50: >2,000 mg/kg (rat)
Dermal: LD50: >2,000 mg/kg (rat)

Polyoxypropylenediamine, CAS# 9046-10-0

Oral: LD50: 2,855 mg/kg (rat)
Dermal: LD50: 2,980 mg/kg (rat)

3-aminomethyl-3,5,5-trimethylcyclohexylamine, CAS# 2855-13-2

Oral: LD50: 1,030 mg/kg (rat)
Dermal: LD50: 1,840 mg/kg (rat)

2-piperazin- 1-yethylamine, CAS# 140-31-8

Oral: LD50: 2,097 mg/kg (rat)
2,140 mg/kg (rat)
Dermal: LD50: 866 mg/kg (rat)

2,4,6 -tris(dimethylaminomethyl)phenol, CAS# 90-72-2

Oral: LD50: 2,169 mg/kg (rat)

Corrosivity / Irritation

Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage. May cause sensitization by skin contact.

Sensitization

Repeated dose toxicity

Causes damage to organs through prolonged or repeated exposure.

Mutagenicity

Not to be expected.

Carcinogenicity

Not a carcinogen according to NTP, IARC, ACHIGH or OSHA.

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

Toxicity for reproduction

Suspected of damaging fertility or the unborn child.

Other information

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Acute toxicity

Phenol, styrenated, CAS# 61788-44-1

LC50 (96 hour) (Fish):

EC50 (72 hour) (Algae)

EC50 (48 hour) (Crustacea)

14.8 mg/l.
3.14 mg/l (Scenedesmus sp.).
1 - 10 mg/l (Daphnia magna (Wasserfloh)).

Polyoxypropylenediamine, CAS# 9046-10-0

LC50 (96 hour) (Fish)

EC50 (72 hour) (Algae)

EC50 (48 hour) (Crustacea)

EC50 (Bacteria)

>15 mg/l (Oncorhynchus mykiss (Regenbogenforella)).
15 mg/l (Pseudokirchnerilla subcapitata).
80 mg/l (Daphnia magna (Wasserfloh)).
310 mg/l (Belebtschlamm (activated sludge)).

3-aminomethyl-3,5,5-trimethylcyclohexylamine, CAS# 2855-13-2

LC50 (96 hour) (Fish)

EC50 (72 hour) (Algae)

EC50 (48 hour) (Crustacea)

EC50 (18 hour) (Bacteria)

2-piperazin- 1-ylethylamine, CAS# 140-31-8

LC50 (96 hour) (Fish)

EC50 (48 hour) (Algae)

(72 hour) (Algae)

EC50 (48 hour) (Crustacea)

EC50 (2 hour) (Bacteria) (dynamic)

2,4,6 -tris(dimethylaminomethyl)phenol, CAS# 90-72-2

LC50 (Fish)

EC50 (Algae)

EC50 (Bacteria)

Long Term Toxicity

Persistence and degradability

Bioaccumulative potential

Mobility in soil

Results of PBT and vPvB assessment

Other adverse effects

110 mg/l (Leuciscus idus).

>50 mg/l (Scenedesmus subspicatus).

23 mg/l (Daphnia magna (Wasserfloh)).

1,120 mg/l (Pseudomonas putida)

368 mg/l (Guppy)

2190 mg/l (Poecilia reticulata)

494 mg/l (Selenastrum capricornutum)

> 1000 mg/l (Pseudokirchnerilla subcapitata)

58 mg/l (Daphnia magna (Wasserfloh)).

511 mg/l (Nitrifizierende Bakterien (nitrog.-fix.))

750 mg/l (Mangrovenkrabbe (Neopanope))

175 mg/l (Cyprinus carpio)

84 mg/l (Desmodesmus subspicatus)

2 mg/l (Belebtschlamm (activated sludge)).

No further relevant information available.

No further relevant information available.

No further relevant information available.

No further relevant information available.

Not classified as PBT or vPvB.

Water hazard. Do not allow to reach ground water, water course, or sewage system undiluted or unneutralized. Danger to drinking water if even small quantities leak into the ground.

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 2735	UN 2735	UN 2735
Proper Shipping Name	AMINES, LIQUID, CORROSIVE, N.O.S. (POLYOXYPROPYLENEDIA MINE, PHENOL, STYRENATED), ENVIRONMENTALLY HAZARDOUS	AMINES, LIQUID, CORROSIVE, N.O.S. (POLYOXYPROPYLEN EDIAMINE, PHENOL, STYRENATED), MARINE POLLUTANT	AMINES, LIQUID, CORROSIVE, N.O.S. (POLYOXYPROPYLENEDIA MINE, PHENOL, STYRENATED),
Transport hazard class(es)	8	8	8
Packing group	II	II	II
Environmental hazards	Yes	Yes	Yes
Placard			
Special precautions for user	Warning: Corrosive substances. Segregation Group: Alkalies. Stow "separated from" acids.	Warning: Corrosive substances. Segregation Group: Alkalies. Stow "separated from" acids.	Warning: Corrosive substances. Segregation Group: Alkalies. Stow "separated from" acids.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:	Not applicable		

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)
None	-----	-----	-----

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.
None	-----	-----

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: 1-16.

Date of preparation: September 15, 2020

Hazard Statement(s) Listed in: SECTION 3

- H227: Combustible liquid.
- H302: Harmful if swallowed.
- H311: Toxic in contact with skin.
- H312: Harmful in contact with skin.
- H314: Causes severe skin burns and eye damage.
- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H318: Causes serious eye damage.
- H361: Suspected of damaging fertility or the unborn child.
- H372: Causes damage to organs through prolonged or repeated exposure.

Additional Information: None.

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