

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-290 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) Acute Tox Oral, 4 ; Acute Tox Inhal. 4 ; Skin Corr. 1B ; Eye Dam. 1 ; Skin Sens.

Label elements

Hazard Symbol



Signal Word(s)

DANGER

Hazard Statement(s)

Harmful if swallowed
Harmful if inhaled
Causes severe skin burns and eye damage
Causes serious eye damage
May cause an allergic skin reaction

Precautionary Statement(s)

Do not breathe dust/fume/gas/mist/vapours/spray.
Avoid breathing dust/fume/gas/mist/vapours/spray.
Wash skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
Wear protective gloves/protective clothing/eye protection/face protection.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF ON SKIN: wash with plenty of soap and water.
IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower.
IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER or doctor/physician.
Call a POISON CENTER or doctor/physician if you feel unwell.
Rinse mouth.
IF SKIN irritation or rash occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.
Store locked up.

Other hazards

Harmful in contact with skin.
Harmful if swallowed.
Toxic by inhalation.
Components of the product may affect the nervous system.
Sever respiratory irritant.
Severe skin irritant.
Severe eye irritant.
May cause sensitization by skin contact.
None.

Additional Information

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Composition/information on ingredients	%W/W	CAS No.	Hazard Statement(s)
Benzyl Alcohol	<45%	100-51-6	Harmful if swallowed; H315 Harmful if inhaled; H332
Benzene-1,3-dimethanamine (MXDA)	<20%	1477-55-0	Harmful if swallowed; H315 Harmful if inhaled; H332 Causes severe skin burns and eye damage; H314 Causes serious eye damage; H318 May cause an allergic skin reaction; H317

Additional Information - None

SECTION 4: FIRST AID MEASURES



Description of first aid measures

Inhalation

Seek medical advice/attention. If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately. Move to fresh air.

Skin Contact

Immediately remove contaminated clothing, and any extraneous chemical, if possible to do so without delay. Take off contaminated clothing and shoes immediately. NOTE TO PHYSICIANS: Application of corticosteroid cream has been effective in treating skin irritation.

Eye Contact

Rinse immediately with plenty of water also under the eyelids for at least 20 minutes. Remove contact lenses if present. Get medical advice/attention.

Ingestion

Rinse immediately with plenty of water for at least 15 minutes. Never give anything by mouth to an unconscious person. If a person vomits when lying on his back, place him in the recovery position. Prevent aspiration of vomit. Turn victim's head to the side.

General advice

Seek medical advice. If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately.

Most important symptoms/effects - acute and delayed

Repeated and/or prolonged exposure to low concentrations of vapors and/or aerosols may cause: Sore throat. Neurological disorders Asthma. Skin disorders and Allergies. Eye disease.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Alcohol-resistant foam.
Carbon dioxide (CO₂).
Dry chemical.
Dry sand.

Unsuitable Extinguishing Media

Limestone powder.
None known.

Special hazards arising from the substance or mixture

May generate ammonia gas. May generate toxic nitrogen oxide gases. Use of water may result in the formation of very toxic aqueous solutions. Do not allow run-off from fire fighting to enter drains or water courses. Incomplete combustion may form carbon monoxide. Ammonia gas may be liberated at high temperatures. In case of incomplete combustion an increased formation of oxides of nitrogen (NO_x) is to be expected. Downwind personnel must be evacuated. Burning produces noxious and toxic fumes.

Special protective equipment for fire-fighters

Avoid contact with the skin. A face shield should be worn. Use personal protective equipment. Wear self contained breathing apparatus for fire fighting if necessary.

Further information

Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use self-contained breathing apparatus and chemically protective clothing. Wear suitable protective clothing, gloves and eye/face protection. Evacuate personnel to safe areas.

Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Construct a dike to prevent spreading. Construct a dike to prevent spreading. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and material for containment and cleaning up

Approach suspected leak areas with caution. Contact Pilgrim's Emergency Response Center for advice. Place in appropriate chemical waste container.

Additional advice

Open enclosed spaces to outside atmosphere. Evacuate area and do not approach spilled product. If possible, stop flow of product.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Protective measures

Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations. Avoid breathing vapors and/or aerosols. Avoid contact with eyes. Use only in well-ventilated areas. Use personal protective equipment. When using, do not eat, drink or smoke.

Storage

Do not store near acids. Keep containers tightly closed in a dry, cool and well-ventilated place. Do not store in reactive metal containers.

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)	
Benzene-1,3-dimethanamine (MXDA)	1477-55-0	0.1 mg/m ³	0.1 mg/m ³	-----	-----	-----

-TWA: Time Weight Average (8 hours); STEL: Short Term Exposure Limit; PEL: Permissible Exposure Limit; TLV: Threshold Limit Value

Appropriate engineering controls

Provide readily accessible eye wash stations and safety showers. Use only with adequate ventilation. Provide natural or explosion-proof ventilation adequate to ensure concentrations are kept below exposure limits.

Personal protection equipment

Hygiene measures

Discard contaminated leather articles. Provide readily accessible eye wash stations and safety showers. Wash hands at the end of each workshift and before eating, smoking or using the toilet. Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Provide readily accessible eye wash stations and safety showers.

Eye/face protection

Chemical resistant goggles must be worn.



Skin protection (Hand protection/ Other)



Long sleeve shirts and trousers without cuffs.

Impervious clothing. Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Neoprene gloves.

PVC disposable gloves

Nitrile rubber.

Respiratory protection



Keep self contained breathing apparatus readily available for emergency use. Spraying increases the risk of hazardous exposure. In atmospheres where the material is sprayed, workers should avoid contact with aerosols through proper engineering controls such as exhaust ventilation and/or proper protective equipment such as full face air supplied respirators. Wear appropriate respirator when ventilation is inadequate.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Liquid
Color.	Light Yellow
Odor	Amine Like.
Odor Threshold (ppm)	Not available.
pH (Value)	>11
Melting Point (°C) / Freezing Point (°C)	Not available.
Boiling point/boiling range (°C):	>225°F (>107°C)
Flash Point (°C)	>235°F (112°C)
Evaporation Rate	Not available.
Flammability (solid, gas)	Not applicable.
Explosive Limit Ranges	Not applicable.
Vapour pressure (mmHg)	7.50 mmHg at 70°F (21°C).
Vapour Density (Air=1)	Not applicable.
Density (g/ml)	1.10 @ 25°C (9.80 lb/gal @ 25°C)
Solubility (Water)	Slightly soluble..
Solubility (Other)	Not available.
Partition Coefficient (n-Octanol/water)	Not available.
Auto Ignition Point (°C)	Not available.
Decomposition Temperature (°C)	Not available.
Viscosity	200 – 350 mPa•s @ 77°F (25°C)
Other information	No additional information.

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	No data available.
Incompatible materials	Reactive or incompatible with the following materials: Sodium hypochlorite. Organic acids (i.e. acetic acid, citric acid etc.). Mineral acids. Product slowly corrodes copper, aluminum, zinc and galvanized surfaces. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion. Reactive metals (e.g. sodium, calcium, zinc etc.). Materials reactive with hydroxyl compounds. Oxidizing agents.

Hazardous decomposition product(s)

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Other hazards

Reacts with considerable heat release with some resins. Run-a-way cure reactions may char and decompose the resin system, generating unidentified fumes and vapors which may be toxic. Some combinations of resins and curing agents can produce exothermic reactions which in large masses can cause runaway polymerization and charring of the reactants

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

Likely routes of exposure Eye, Inhalation, Ingestion, Skin.

Effects on eye	Contact with eyes may cause severe irritation.
Effects on Skin	Harmful in contact with skin. If absorbed through the skin, may cause central nervous system effects, such as headache, nausea, dizziness, confusion, breathing difficulties. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Inhalation Effects	Toxic by inhalation. Harmful if inhaled and may cause delayed lung injury. May cause central nervous system effects, such as headache, nausea, dizziness, confusion, breathing difficulties. Severe cases of overexposure can result in respiratory failure. May cause nose, throat, and lung irritation. Inhalation of vapors and/or aerosols in high concentration may cause irritation of respiratory system.
Ingestion Effects	Harmful if swallowed. May cause central nervous system effects, such as headache, nausea, vomiting, abdominal pain, dizziness, confusion, breathing difficulties. Severe cases of overexposure can result in respiratory failure.
Symptoms	Repeated and/or prolonged exposure to low concentrations of vapors and/or aerosols may cause: Sore throat. Neurological disorders, Asthma., Skin disorders and Allergies., Eye disease.

Acute toxicity

Oral Toxicity	LD50 : > 1,230 mg/kg Species : Rat.
Inhalation	No data is available on the product itself.
Benzyl Alcohol	LC50 (4h): >4,170 mg/L : Rat.
Ingestion	Irritating to mouth, throat and stomach.
Acute Dermal Toxicity	No data is available on the product itself.
Benzyl Alcohol	LD50: 2,000 mg/Kg : Rabbit
Benzene-1,3-dimethanamine (MXDA)	LD50: 2,000 mg/Kg : Rabbit
Skin corrosion/irritation	Destruction of skin tissue as a result of up to 4 hours exposure., Rabbit skin. Corrosive in an in vitro test.
Serious eye damage/eye irritation	Causes severe eye irritation.
Sensitization	May cause sensitization by skin contact.

Chronic toxicity or effects from long term exposures

Carcinogenicity	No data available.
Reproductive toxicity	No data is available on the product itself.
Germ cell mutagenicity	No data is available on the product itself.
Specific target organ systemic toxicity (single exposure)	No data available.
Specific target organ systemic toxicity (repeated exposure)	No data available.
Aspiration hazard	No data available.

Delayed and Immediate Effects and Chronic Effects from Short and Long Term Exposure

This product contains no listed carcinogens according to IARC, ACGIH, NTP and/or OSHA in concentrations of 0.1 percent or greater. Prolonged contact may result in chemical burns and permanent damage., Repeated or prolonged contact causes sensitization, asthma and eczemas. Neurological disorders, Asthma., Skin disorders and Allergies., Eye disease.

Rats exposed orally to 800 mg/kg benzyl alcohol for thirteen weeks exhibited CNS depression and histopathological changes in the brain, thymus and skeletal muscles. The No Observed Adverse Effect Level (NOAEL) was 400 mg/kg. No evidence of carcinogenicity was seen in a two-year study with rats and mice.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic toxicity

No data is available on the product itself.

Toxicity to fish – Components

Benzyl Alcohol

LC50 (96 hr): 10 mg/L : Bluegill sunfish (*Lepomis macrochirus*).
LC50 (96 hr): 460 mg/L: Fathead minnow (*Pimephales promelas*).

Toxicity to algae – Components

Benzyl Alcohol

IC50 (72 hr): 700 mg/L: Algae.

Benzene-1,3-dimethanamine (MXDA)

EC50 (72 hr): 12 mg/L: *Scenedesmus subspicatus*

Toxicity to other organisms

No data available.

Persistence and degradability Conclusion/Summary

Biodegradability

No data is available on the product itself.

Mobility

No data available.

Bioaccumulation

No data is available on the product itself.

Bioaccumulation – Components

Benzyl Alcohol

Low bioaccumulation potential.

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	UN2735	UN2735	UN2735
Proper Shipping Name	Amines, liquid, corrosive, n.o.s., (Aliphatic amine)	Amines, liquid, corrosive, n.o.s., (Aliphatic amine)	Amines, liquid, corrosive, n.o.s., (Aliphatic amine)
Transport hazard class(es)	8	8	8
Packing group	III	III	III
Environmental hazards	No	Yes	Yes
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Consult IMO regulations before transporting ocean bulk.			

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.

Hazard Statement(s) Listed in: SECTION 3

H302: Harmful if swallowed
H332: Harmful if inhaled
H314: Causes severe skin burns and eye damage
H318: Causes serious eye damage
H317: May cause an allergic skin reaction

Additional Information: None.

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