

EPO-LP (Liquid Pigment) LP-4 Battleship Gray

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-LP (Liquid Pigment) LP-4 Battleship Gray
CAS No.	Mixture

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

Identified Use(s)	Industrial Flooring Coloring Agent, Pigments
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)	None.
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Label elements

Hazard Symbol(s)	None.
Signal Word(s)	None.
Hazard Statement(s)	None.

Precautionary Statement(s)	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product. If SWALLOWED: Call POISON CENTER or doctor/physician if you feel unwell. Rinse mouth If INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell
Other hazards	None identified.

Additional Information

None.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Composition/information on ingredients	%W/W	CAS No.	Hazard Statement(s)
Titanium Dioxide (Pigment White 6)	45 - 65	13463-67-7	Carc. 2; H351
1, 2-Ethanediamine, polymer with aziridine, N-[3-[(2-ethylhexyl)oxy]-3-oxypropyl] dervs., compds. with polyethylene-polypropylene glycol	<10	398475-96-2	Skin Irrit; H315 Eye Irrit. 2A; H319
Carbon black	<10	1333-86-4	Carc. 2; H351

For full text of H phrases see section 16.

Additional Information - None

SECTION 4: FIRST AID MEASURES



Description of first aid measures

Inhalation	Remove person to fresh air and keep comfortable for breathing. Keep patient at rest and give oxygen if breathing difficult. If symptoms continue, get medical attention. Get medical advice/attention if you feel unwell.
Skin Contact	Remove contaminated clothing. Wash skin with soap and water. Wash contaminated clothing before reuse. If irritation develops and persists, get medical attention.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation develops and persists, get medical attention.
Ingestion	Rinse out mouth and then drink plenty of water. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Immediately get medical advice/attention.
Most important symptoms and effects, both acute and delayed	Gastric or intestinal disorders when ingested. Slight irritant effect on eyes.
Indication of any immediate medical attention and special treatment needed	None known

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

-Suitable Extinguishing Media	Use carbon dioxide, dry chemical, foam, water fog or haze. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
-Unsuitable Extinguishing Media	Water stream.

Special hazards arising from the substance or mixture

No unusual fire or explosion hazards noted.

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

Ensure adequate ventilation. For large spills wear protective clothing. For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.

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Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system.

Methods and material for containment and cleaning up

Use personal protective equipment as required. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Sweep up and shovel into suitable containers for disposal. Transfer to a container for disposal. Wash the spillage area with warm water and cleansing agent. Do not allow to enter drains, sewers or watercourses.

Reference to other sections

Refer to Sections 7, 8 and 13 for further information.

Additional Information

None.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Observe good industrial hygiene practices. Avoid splashes or spray in enclosed areas. Provide adequate ventilation. Wear appropriate personal protective equipment. Do not eat, drink or smoke when using this product. Avoid contact with eyes and prolonged or repeated contact with skin. Keep containers closed when not in use. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

-Storage temperature

Keep container closed in a dry and well-ventilated place. Avoid storage near extreme heat, ignition sources or open flame. Keep out of the reach of children.

-Incompatible materials

Strong oxidizers.

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)	
Titanium Dioxide	13463-67-7	5 mg/m3 (respirable)	10 mg/m3	-----	-----	-----
		10 mg/m3 (total dust)				
Carbon Black	133-86-4	3.5 mg/m3	3 mg/m3 (respirable)	-----	-----	-----

8hr TWA: 8 hour time-weighted average; PEL: Permissible Exposure Limit; TLV: Threshold Limit Value; STEL = Short Term Exposure Limit

Exposure controls

Appropriate engineering controls

Use adequate general or local exhaust ventilation to maintain concentrations in the workplace below the applicable exposure limits. Avoid contact with the eyes. Avoid close or long term contact with the skin.

Personal protection equipment

Eye/face protection

Safety Glasses, tight fitting goggles.



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Skin protection (Hand protection/ Other)



Protective gloves and protective clothing

Respiratory protection



Respiratory protection may be needed if occupational exposure limits are exceeded. Use suitable respiratory protective device when aerosol or mist is formed.

Thermal hazards

Not normally required.

Environmental Exposure Controls

Not normally required.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Liquid.
Color.	Gray colored.
Odor	Mild.
Odor Threshold (ppm)	Not available.
pH (20°C (68°F))	App. 6.
Melting Point (°C) / Freezing Point (°C)	Not available.
Boiling point/boiling range (°C):	>199°C (>390°F)
Flash Point (°C)	204°C (399°F)
Evaporation Rate	Not available.
Flammability (solid, gas)	Not flammable.
Explosive Limit Ranges	Not explosive.
Vapor pressure (Pascal)	<0.0013 hPa (<0.001 mmHg)
Vapor Density (Air=1)	Not applicable.
Density (g/ml)	1.75 g/m3 (14.59 Lb/gal)
Specific Gravity	1.75
Solubility (Water)	Slightly soluble.
Solubility (Other)	Not available.
Partition Coefficient (n-Octanol/water)	Not available.
Auto Ignition Point (°C)	Not self igniting.
Decomposition Temperature (°C)	Not available.
Dynamic Viscosity, cPs (25°C) (77°F)	2,400 ± 750
Kinematic Viscosity (cSt) @ 40°C	Not applicable.
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Other information	None.

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Reacts with strong oxidizing agents.
Incompatible materials	Strong oxidizers.
Hazardous decomposition product(s)	Toxic fumes may be released if heated above the decomposition point.

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Ingestion, Skin contact, Inhalation, Eye contact.

Product

Oral

Not classified for acute toxicity based on available data.

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Dermal	Not classified for acute toxicity based on available data.
Inhalation	Not classified for acute toxicity based on available data.
Skin Corrosion/Irritation	Not classified for acute toxicity based on available data.
Serious Eye Damage/Eye Irritation	Not classified for acute toxicity based on available data.
Respiratory Sensitization	Not classified for acute toxicity based on available data.
Aspiration Hazard:	Not applicable.
CMR Effects	

Germ Cell Mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide and carbon black but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating for both Titanium Dioxide and Carbon Black. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide or carbon black is thought to occur during the use of products in which titanium and carbon black are bound to other materials, such as paint."

NTP	IARC	ACGIH	OSHA
No	2B	No	No

Group 2B = Possibly carcinogenic to humans. (airborne, unbound particles of respirable size)

Reproductive Toxicity	Based on available data, the classification criteria are not met.
STOT – Single Exposure	Based on available data, the classification criteria are not met.
STOT – Repeated Exposure	Based on available data, the classification criteria are not met.
Aspiration Hazard	Based on available data, the classification criteria are not met.

SECTION 12: ECOLOGICAL INFORMATION

This product contains materials that are harmful to the environment.

1, 2-Ethanediamine, polymer with aziridine, N-[3-[(2-ethylhexyl) oxy]-3-oxypropyl] dervs., compds. with polyethylene-polypropylene glycol, CAS# 398475-96-2

Ecotoxicity	
Fish	LC 50 8.0 mg/L (Oncorhynchus mykiss)
Aquatic Invertebrates	No further relevant information available.
Toxicity to Aquatic Plants	<1.0 mg/kg (Pseudokirchneriella subcapitata).
Toxicity to soil dwelling organisms	No further relevant information available.
Sediment Toxicity	No further relevant information available.
Toxicity to Terrestrial Plants	No further relevant information available.
Toxicity to Above-Ground Organisms	No further relevant information available.
Toxicity to microorganisms	No further relevant information available.
Persistence and degradability	No further relevant information available.
Bioaccumulative potential	No further relevant information available.
Bio-concentration Factor (BCF)	No further relevant information available.
Partition Coefficient n-octanol / water	No further relevant information available.
Mobility in soil	No further relevant information available.
General Notes:	Do not allow undiluted product or large quantities to reach ground water, water course or sewage system. Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment cannot be excluded.

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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		UN3082	UN3082
Proper Shipping Name		Environmentally Hazardous Substance, Liquid, N.O.S. (Alkylammonium Salt)	Environmentally Hazardous Substance, Liquid, N.O.S. (Alkylammonium Salt)
Transport hazard class(es)	Not classified as dangerous for transport.	9	9
Packing group		III	III
Labels		9	9
Marine Pollutant		No	No
Special precautions for user		Warning: Miscellaneous dangerous substances and articles.	Warning: Miscellaneous dangerous substances and articles.
Remarks:	Transport labelling is not required for non-bulk single package shipments by motor vehicle, rail car or aircraft. Bulk packaging consists of a maximum capacity of greater than 450L (119 gallons) for a liquid and a maximum net mass greater than 400Kg (882 pounds) for a solid.		
	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.

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

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

SARA 311/312 - Hazard Categories: None

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.	TPQ (pounds)
None	-----	-----	-----

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Proposition 65 (California):

Chemical Name	CAS No.	Typical %wt.	Hazards
Titanium Dioxide	13463-67-7	45 - 65	Cancer (airborne, unbound particles of respirable size)
Carbon Black	1333-86-4	<10	Cancer (airborne, unbound particles of respirable size)

⚠️ WARNING: This product can expose you to chemicals including Titanium Dioxide, which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.

Reference to Titanium Dioxide and Carbon Black is based on unbound respirable particles and is not generally applicable to product as supplied.

SECTION 16: OTHER INFORMATION

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

Date of preparation: December 11, 2019

Hazard Statement(s) Listed in: SECTION 3
None.

Additional Information: None.

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