

SAFETY DATA SHEET

Section 1: Identification

Product Name: PHOENIX 2021™ (B-Side)
PHOENIX MCBS, LLC
804 Summer Park, Suite 450
Stafford, TX 77477
281-627-0661

Spill, leak, fire, exposure, or accident, call
 CHEMTREC day or night
 Domestic North America: **800-424-9300**
 email: info@phoenixliners.com

Section 2: Hazards Identification

GHS Ratings:

Oral Toxicity	Acute tox. 4	Oral >300+<= 2000 mg/kg
Skin Corrosive	2	Reversible adverse effects in dermal tissue, Draize score: >= 2.3 < 4.0 or persistent inflammation
Eye Corrosive	1	Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity >= 3, Iritis > 1.5
Aquatic Toxicity	C2	Acute toxicity > 1.00 but <= 10.0 mg/l and lack of rapid degradability and log Kow >= 4 unless BCF < 500 and unless chronic toxicity > 1 mg/l

Danger



GHS Hazards:

Harmful if swallowed	Causes serious eye damage
Causes skin irritation	Toxic to aquatic life with long lasting effects

GHS Precautions:

Obtain special instructions before use	Do not handle until all safety precautions have been read and understood
Wash skin / hands thoroughly after handling	
Use respiratory protection	Contaminated work clothing should not be allowed out of the workplace
Do not breathe dust/fume/gas/mist/vapors/spray	Avoid release to the environment
Do not eat, drink, or smoke while using this product	Take off contaminated clothing and wash before reuse
Wear protective gloves/protective clothing/eye protection/face protection	Immediately call a POISON CENTER in case of overexposure
Specific treatment is urgent (see Section 4: First Aid measures)	Use personal protective equipment as required
Collect spillage	Rinse mouth
IF ON SKIN: Wash with plenty of soap & water.	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
If skin irritation occurs: Get medical advice/attention	

continued on next pg.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Call a POISON CENTER or doctor if you feel unwell

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Dispose of contents/container in accordance with existing federal, state, and local environmental control laws.

Acute Toxicity:

Eyes: Corrosive to eyes.

Skin: Harmful in contact with skin.

Inhalation: Harmful if inhaled.

Ingestion: Not expected to be a route of exposure. Consult physician.

Chronic Health Effects: Possible harmful target organ effects.

Section 3: Component / Hazards Identification

Chemical Name	CAS number	Weight Concentration %
Propylene glycol diamine, 2-amino-, diether with Propylene	9046-10-0	20.00% - 30.00%
Diethyltoluenediamine	68479-98-1	10.00% - 20.00%
1,4-Butanediol	110-63-4	5.00% - 10.00%
Carbon black	1333-86-4	1.00% - 5.00%

Section 4: First-aid Measures

Inhalation: If inhaled and symptoms ensue, move to fresh air. If breathing is difficult, give oxygen.

Eye Contact: Rinse opened eye for at least 15 minutes under running water. Remove contact lenses if present and easy to do so, and continue rinsing. If irritation persists contact physician.

Skin Contact: Remove contaminated clothing. Clean affected area with soap and plenty of water. Call a physician if irritation or rash develops.

Ingestion: Consult a physician.

Notes to Physician: Treat symptomatically.

Section 5: Fire-fighting Measures

Flash Point: 121 °C (250 °F)

Suitable Extinguishing Media: Water spray, CO₂, Foam, Dry chemical.

Information about Protection against Explosions and Fires: Keep away from open flames and sources of heat. Closed containers may rupture when exposed to extreme heat.

Dangerous Products of Decomposition: Oxides of carbon, oxides of nitrogen, hydrocarbons.

Protective Equipment: Firefighters should wear a pressure demand self-contained breathing apparatus and protective clothing.

Section 6: Accidental Release Measures

Person-Related Safety Precautions: Use appropriate personal protective equipment during clean up. Evacuate and keep unnecessary people out of spill area. Avoid contact with skin and eyes.

Environmental Precautions: Cover and contain spill with absorbent material. Collect for proper disposal according to local, state, and federal regulations.

Small Spills: Absorb with earth, sand or other absorbent material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece) clean surface thoroughly to remove residual contamination.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use an absorbent material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Section 7: Handling and Storage

Safe Handling Requirements: Avoid contact with eyes, skin, or inhalation.

Storage Requirements: Store containers in a dry, well ventilated area. Keep containers tightly closed and prevent moisture contamination. Do not re-seal the container if contamination is suspected. Store between 60°F and 100°F. Store according to all local, state, and federal regulations.

Storage Stability:

Storage Temperature Range: 60 - 100 °F (15 - 37 °C)

Storage Length/Period: 6 months - Material may settle.

Section 8: Exposure Controls / Personal Protection

Control Parameters

Exposure limits are listed below, if they exist (*else not established*):

Chemical Name	Regulation	Type of listing	Value / Notation
Carbon black 1333-86-4	OSHA	TWA	3.5 mg/m ³
	ACGIH	TWA inhalable fraction	3 mg/m ³
	NIOSH	TWA	3.5 mg/m ³
	NIOSH	TWA (Carbon black in presence of Polycyclic Aromatic Hydrocarbons)	0.1 mg/m ³

Engineering Controls: No specific measures required if proper PPE precautions are followed.

General Protective and Hygienic Measures: Use all typical precautionary measures when handling chemicals.

Personal Protective Equipment:

Respiratory Protection: In spray applications, an organic vapor/particulate respirator or air supplied unit is necessary.

Hand Protection: Protective chemical resistant gloves.

Eye Protection: Chemical resistant goggles must be worn.

Body Protection: Impervious protective work clothing. Launder separately.

Contaminated Gear: Observe local requirements. Dispose of in accordance with local/state/federal regulations.

Section 9: Physical and Chemical Properties

Appearance: Black liquid	Oxidizing Properties: No
Relative Density (water = 1): No Data	Odor: Amine odor
pH: No Data	Odor threshold: No Data
Freezing point: No Data	Melting point: No Data
Evaporation rate: No Data	Flash point: 250 °F / 121 °C
Explosive Limits: No Data	Flammability: Not Applicable
Vapor Density: No Data	Specific Gravity: 1.01
Water Solubility: N/A	Kinematic Viscosity: No Data
Boiling Range: 132 - 235 °C	Dynamic Viscosity: No Data
Decomposition Temperature: No Data	Vapor Pressure: No Data
Autoignition Temperature: 385 °F	

Section 10: Stability and Reactivity

Chemical Incompatible Materials: Avoid contact with isocyanates and strong oxidizing agents.

Hazardous Polymerization: Not expected to occur.

Dangerous decomposition products: Oxides of carbon, oxides of nitrogen, hydrocarbons.

Section 11: Toxicological Information

Mixture Toxicity

Oral Toxicity LD50: 1265 mg/kg

Component Toxicity

9046-10-0	Propylene glycol diamine, 2-amino-, diether with Propylene	<i>Oral LD50:</i> 480 mg/kg (Rat)	<i>Dermal LD50:</i> 2,090 mg/kg (Rabbit)
68479-98-1	Diethyltoluenediamine	<i>Oral LD50:</i> 485 mg/kg (Rat)	<i>Dermal LD50:</i> 2,000 mg/kg (Rabbit)

Acute Toxicity:

Eyes: Corrosive to eyes.

Skin: Harmful in contact with skin.

Inhalation: Not expected to be a route of exposure.

Ingestion: Harmful if swallowed. Consult physician.

Chronic Effects: Possible harmful target organ effects.

Routes of Entry: Ingestion, skin contact, eye contact.

Target Organs: Skin, eyes, digestive tract, pancreas.

Chemicals with Known or Possible Carcinogenic Effects:

CAS Number	Description	% Weight	Carcinogen Rating
1333-86-4	Carbon black	1 to 5 %	Carbon black: NIOSH: potential occupational carcinogen IARC: Possible human carcinogen OSHA: listed

Section 12: Ecological Information

General Information: Based on experience, no adverse effects are to be expected if correct disposal procedures have been followed as indicated in section 13. Individual component ecotoxicity listed if known.

Component Ecotoxicity

Propylene glycol diamine, 2-amino-, diether with Propylene

96 hr LC50 estimated >10-100 ppm, based on available data and comparison to similar compounds

Diethyltoluenediamine

LC50, *Leuciscus idus* 48 hour: 194 mg/L
EC50, *Daphnia magna*, 48 hour: < 1 mg/L
EC50, *Pseudomonas putida*, 16 hour: 170 mg/L

1,4-Butanediol

48 Hr EC50 *Daphnia magna*: 813 mg/L
72 Hr EC50 *Desmodesmus subspicatus*: >500 mg/L

Section 13: Disposal Considerations

Recommendations: Observe local requirements. Dispose of in accordance with local/state/federal environmental control laws.

Empty Container Precautions: Recondition or dispose of empty container in accordance with governmental regulations. If container is to be disposed, ensure all product residues are removed and container is empty prior to disposal.

Section 14: Transport Information

DOT Regulated Components: This product is not regarded as dangerous goods according to the national and international regulations on the transport of dangerous goods unless specifically cited below:

Agency	Proper Shipping Name	UN Number	Packing Group	Hazard Class
ICAO/IATA	Environmentally Hazardous Substance, N.O.S. (Contains Diethyltoluenediamine)	3082	III	9
IMDG	Environmentally Hazardous Substance, N.O.S. (Contains Diethyltoluenediamine)	3082	III	9

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

Section 15: Regulatory Information

OSHA Hazard Communication Standard:

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SARA 311/312 Hazard Categories:

Acute Health Hazard
Chronic Health Hazard

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986):

This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

WARNING: This product can expose you to chemicals listed below, which are known to the State of California to cause cancer, birth defects, or reproductive harm. For more information, visit www.P65Warnings.ca.gov.

Components	CASRN	% Weight	
Carbon black	1333-86-4	1 to 5 %	CARC

Massachusetts Right To Know List:

Components	CASRN	% Weight
Carbon black	1333-86-4	1 to 5 %

New Jersey Right To Know List:

Components	CASRN	% Weight
Carbon black	1333-86-4	1 to 5 %

Pennsylvania Right To Know List:

Components	CASRN	% Weight
Carbon black	1333-86-4	1 to 5 %

Chemicals subject to SARA 313 Reporting: None.

United States TSCA Inventory (TSCA):

All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

Canada Domestic Substances List:

All components of this product are in compliance with the inventory listing requirements of the Canada Domestic Substances List (DSL).

Section 16: Other Information

The customer is responsible for determining the proper PPE code for this material within their respective business / application process.

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Reviewer Revision 0

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