

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Product identifier used on the label:

Clear Shield Gloss Product Name:

Other means of identification:

 $\underline{\textbf{Recommended use of the chemical and restrictions on use:}}$

Chemical manufacturer address and telephone number:

Perma-Chink Systems, Inc. Manufacturer Name:

1605 Prosser Road Address: Knoxville, TN 37914

USA

Website: www.permachink.com General Phone Number: 800-548-3554 865-523-9475 General Fax Number:

Customer Service Phone Number: 865-524-7343

Emergency phone number:

Emergency Phone Number: CHEMTREC 1-800-424-9300

SECTION 2: HAZARD(S) IDENTIFICATION

Classification of the chemical in accordance with CFR 1910.1200(d)(f):

Signal Word: Not applicable.

GHS Class: Not classified as hazardous according to OSHA Hazard Communication Standard, 29 CFR 1910-1200.

Not applicable. Hazard Statements: Precautionary Statements: Not applicable.

Hazards not otherwise classified that have been identified during the classification process:

Potential Health Effects:

Eye: May cause eye irritation. Skin: May cause skin irritation.

Inhalation: Prolonged or excessive inhalation may cause respiratory tract irritation.

May be harmful if swallowed. May cause vomiting. Ingestion:

Chronic Health Effects: Prolonged or repeated contact may cause skin irritation. Signs/Symptoms: Overexposure may cause headaches and dizziness.

Eyes. Skin. Respiratory system. Digestive system. Target Organs:

Aggravation of Pre-Existing Conditions:

None generally recognized.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

Chemical Name	CAS#	Ingredient Percent	EC Number.
Proprietary	No Data	65 - 80 by weight	
Proprietary Polymer		25 - 31 by weight	
Propylene glycol	57-55-6	1.0 - 2.0 by weight	200-338-0
2-Propyl, 1-(2-butoxy-1-methylethoxy)-	29911-28-2	3.0 - 5.0 by weight	249-951-5
2-Butoxy ethanol	111-76-2	1.0 - 2.0 by weight	203-905-0

SECTION 4: FIRST AID MEASURES

Description of necessary measures:

Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of Eye Contact:

the eyes by separating the eyelids with fingers. Remove contacts if present and easy to do. Continue

rinsing. Get medical attention, if irritation or symptoms of overexposure persists.

Skin Contact: Immediately wash skin with soap and plenty of water. Get medical attention if irritation develops or persists.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained

personnel. Seek immediate medical attention

Ingestion: If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give

anything by mouth to an unconscious person.

SECTION 5: FIRE FIGHTING MEASURES

Suitable and unsuitable extinguishing media:

Suitable Extinguishing Media: Use alcohol resistant foam, carbon dioxide, dry chemical, or water fog or spray when fighting fires

involving this material.

$\underline{\hbox{Special protective equipment and precautions for fire-fighters:}}\\$

Protective Equipment: As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent)

and full protective gear.

NFPA Ratings:

1 NFPA Flammability: 1 NFPA Reactivity: 0



SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personal Precautions: Evacuate area and keep unnecessary and unprotected personnel from entering the spill area. Use

proper personal protective equipment as listed in Section 8.

Environmental precautions:

Environmental Precautions: Avoid runoff into storm sewers, ditches, and waterways.

Methods and materials for containment and cleaning up:

Methods for containment: Contain spills with an inert absorbent material such as soil or sand. Prevent from spreading by

covering, diking or other means. Provide ventilation.

Methods for cleanup: Clean up spills immediately observing precautions in the protective equipment section. Place into a suitable container for disposal. Provide ventilation. After removal, flush spill area with soap and water

to remove trace residue.

SECTION 7: HANDLING and STORAGE

Precautions for safe handling:

Handling: Use with adequate ventilation. Avoid breathing vapor and contact with eyes, skin and clothing.

Hygiene Practices: Wash thoroughly after handling. Avoid contact with eyes and skin. Avoid inhaling vapor or mist.

Conditions for safe storage, including any incompatibilities:

Store in a cool, dry, well ventilated area away from sources of heat, combustible materials, and Storage:

incompatible substances. Keep container tightly closed when not in use.

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SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE GUIDELINES:

Appropriate engineering controls:

Engineering Controls: Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other

engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance

of the personal protective equipment.

Individual protection measures:

Eye/Face Protection: Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye

and face protection regulation, or the European standard EN 166.

Skin Protection Description: Chemical-resistant gloves and chemical goggles, face-shield and synthetic apron or coveralls should be

used to prevent contact with eyes, skin or clothing.

Respiratory Protection: A NIOSH approved air-purifying respirator with an organic vapor cartridge or canister may be

permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

Other Protective: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety

PPE Pictograms:





SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL AND CHEMICAL PROPERTIES:

Liquid. Physical State: Physical State Appearance: Liquid. Color: Transparent

Odor: Characteristic latex odor

212°F **Boiling Point:**

Not applicable. Melting Point: 8.5 - 8.70 lb./gal Density:

Specific Gravity: 1.02 - 1.04 No Data Solubility: Vapor Density: No Data Vapor Pressure: No Data

63 - 75 Percent Percent Volatile:

No Data Evaporation Rate: 8.5 - 8.8 pH: Molecular Formula: Mixture Viscosity: 235 - 320 cP

No Data Flammability: Flash Point: No Data Not applicable Lower Flammable/Explosive Limit: Upper Flammable/Explosive Limit:

VOC Content: 195 - 213 g/L (Regulatory Less Water)

SECTION 10: STABILITY and REACTIVITY

Chemical Stability:

Chemical Stability: Stable under normal temperatures and pressures.

Not applicable

Possibility of hazardous reactions:

Hazardous Polymerization: Not reported.

Conditions To Avoid:

Conditions to Avoid: Heat, flames, incompatible materials, and freezing or temperatures below 32 deg. F.

Incompatible Materials:

Incompatible Materials: Oxidizing agents. Strong acids and alkalis.

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SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

Propylene glycol:

Eye:

Administration into the eye - Rabbit Standard Draize test: 100 mg [Mild] Administration into the eye - Rabbit Standard Draize test: 500 mg/24H [Mild] (RTECS)

Skin: Administration onto the skin - Rabbit LD50 - Lethal dose, 50 percent kill: 20800 mg/kg [Details of

Administration onto the skin - Rabbit LD50 - Lethal dose, 50 percent kill: 20800 mg/kg [Behavioral - Ataxia Behavioral - Tetany Lungs, Thorax, or Respiration - Respiratory depression] (RTECS)

Ingestion: Oral - Rat LD50 - Lethal dose, 50 percent kill: 20 gm/kg [Details of toxic effects not reported other

than lethal dose value] (RTECS)

2-Propyl,1-(2-butoxy-1-methylethoxy)-:

Rabbit - LD50 5860 uL/kg.

Indestion:

Rat - LD50 1620 uL/kg

2-Butoxy ethanol:

Eye: Serious eye damage/irritation Skin: Guinea pig - > 2,000 mg/kg Ingestion: Rat - LD50; 1,300 MG/KG

Inhalation: Rat - LC50: 2.56 mg/L, exposure 4 hrs.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

Ecotoxicity: No data. Environmental Fate: No data.

SECTION 13: DISPOSAL CONSIDERATIONS

Description of waste:

Waste Disposal:

Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local quidelines.

SECTION 14: TRANSPORT INFORMATION

DOT Shipping Name: Not restricted as a dangerous good. DOT UN Number: Not restricted as a dangerous good.

Not restricted as a dangerous good. IATA Shipping Name: IATA UN Number: Not restricted as a dangerous good.

Canadian Shipping Name: Not restricted as a dangerous good. Canadian UN Number: Not restricted as a dangerous good. IMDG UN Number: Not restricted as a dangerous good. IMDG Shipping Name : Not restricted as a dangerous good. ADR UN Number: Not restricted as a dangerous good. ADR Shipping Name: Not restricted as a dangerous good.

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SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product:

Listed

Propylene glycol:

TSCA Inventory Status: Listed Canada DSL: Listed EC Number: 200-338-0

2-Propyl,1-(2-butoxy-1-methylethoxy)-:

TSCA Inventory Status: Listed Canada DSL:

EC Number: 249-951-5

2-Butoxy ethanol:

TSCA Inventory Status: Listed Listed Canada DSL: **EC Number:** 203-905-0

SECTION 16: ADDITIONAL INFORMATION

HMIS Ratings:

HMIS Health Hazard: HMIS Fire Hazard: 1 HMIS Reactivity: 0 HMIS Personal Protection:

SDS Creation Date: May 5, 2025 SDS Revision Date: May 5, 2025

SDS Format:

SDS Author: Perma-Chink Systems, Inc.

The information contained herein is, to the best of Perma-Chink Systems, Inc. knowledge, accurate as Disclaimer:

of the date indicated. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar, and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume responsibility for the results of its use. This information is furnished on the condition that the person receiving it shall make

Health Hazard Fire Hazard Reactivity 0 **Personal Protection** X

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SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Product identifier used on the label:

Product Name: Clear Shield Matte

Other means of identification:

Recommended use of the chemical and restrictions on use:

Chemical manufacturer address and telephone number:

Manufacturer Name: Perma-Chink Systems, Inc.

Address: 1605 Prosser Road Knoxville, TN 37914

USA

Website: www.permachink.com
General Phone Number: 800-548-3554
General Fax Number: 865-523-9475

Customer Service Phone Number: 865-524-7343

Emergency phone number:

Emergency Phone Number: CHEMTREC 1-800-424-9300

SECTION 2: HAZARD(S) IDENTIFICATION

Classification of the chemical in accordance with CFR 1910.1200(d)(f):

Signal Word: Not applicable.

GHS Class: Not classified as hazardous according to OSHA Hazard Standard, 29 CFR 1910-1200.

Hazard Statements: Not applicable.

Precautionary Statements: Not applicable.

 $\underline{\text{Hazards not otherwise classified that have been identified during the classification process:} \\$

Potential Health Effects:

Eye: May cause eye irritation.

Skin: May cause skin irritation.

Inhalation: Prolonged or excessive inhalation may cause respiratory tract irritation.

Ingestion: May be harmful if swallowed. May cause vomiting.

Chronic Health Effects: Prolonged or repeated contact may cause skin irritation.

Signs/Symptoms: Overexposure may cause headaches and dizziness.

Target Organs: Eyes. Skin. Respiratory system. Digestive system.

Aggravation of Pre-Existing

Conditions:

None generally recognized.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

Chemical Name	CAS#	Ingredient Percent	EC Num.
Proprietary	No Data	65 - 80 by weight	
Proprietary Polymer		24 - 30 by weight	
Propylene glycol	57-55-6	1.0 - 2.0 by weight	200-338-0
Amorphous Silica	7631-86-9	1.0 - 2.0 by weight	262-373-8
2-propyl,1-(2-butoxy-1-methylethoxy)-	2911-28-2	2.0 - 4.2 by weight	249-951-5
2-Butoxy ethanol	111-76-2	1.2 - 2.0 by weight	203-905-0

SECTION 4: FIRST AID MEASURES

<u>Description of necessary measures:</u>

Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Remove contacts if present and easy to do. Continue Eve Contact:

rinsing. Get medical attention, if irritation or symptoms of overexposure persists.

Immediately wash skin with soap and plenty of water. Get medical attention if irritation develops or persists. Skin Contact:

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained

personnel. Seek immediate medical attention.

Ingestion: If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give

anything by mouth to an unconscious person.

SECTION 5: FIRE FIGHTING MEASURES

Suitable and unsuitable extinguishing media:

Suitable Extinguishing Media: Use alcohol resistant foam, carbon dioxide, dry chemical, or water fog or spray when fighting fires

involving this material.

Special protective equipment and precautions for fire-fighters:

Protective Equipment: As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent)

and full protective gear.

NFPA Ratings:

NFPA Health: 1 NFPA Flammability: 1 0 NFPA Reactivity:



SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personal Precautions: Evacuate area and keep unnecessary and unprotected personnel from entering the spill area. Use

proper personal protective equipment as listed in Section 8.

Environmental precautions:

Environmental Precautions: Avoid runoff into storm sewers, ditches, and waterways.

Methods and materials for containment and cleaning up:

Contain spills with an inert absorbent material such as soil or sand. Prevent from spreading by Methods for containment:

covering, diking or other means. Provide ventilation.

Clean up spills immediately observing precautions in the protective equipment section. Place into a suitable container for disposal. Provide ventilation. After removal, flush spill area with soap and water Methods for cleanup:

SECTION 7: HANDLING and STORAGE

Precautions for safe handling:

Use with adequate ventilation. Avoid breathing vapor and contact with eyes, skin and clothing. Handling:

Hygiene Practices: Wash thoroughly after handling. Avoid contact with eyes and skin. Avoid inhaling vapor or mist.

Conditions for safe storage, including any incompatibilities:

Storage: Store in a cool, dry, well ventilated area away from sources of heat, combustible materials, and

incompatible substances. Keep container tightly closed when not in use.

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SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE GUIDELINES:

Appropriate engineering controls:

Engineering Controls:

Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.

Individual protection measures:

Eye/Face Protection:

Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.

Skin Protection Description:

Chemical-resistant gloves and chemical goggles, face-shield and synthetic apron or coveralls should be used to prevent contact with eyes, skin or clothing.

Respiratory Protection:

A NIOSH approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

Other Protective:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety

No Data

PPE Pictograms:





SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL AND CHEMICAL PROPERTIES:

Physical State: Liquid.

Physical State Appearance: Liquid.

Color: Transparent

Odor: Characteristic latex odor

Boiling Point: 212°F

Not applicable. Melting Point:

8.60 - 8.70 lb./gal Density:

Specific Gravity: 1.03 - 1.06 Vapor Density: No Data

Percent Volatile: 65 - 75 Percent

Evaporation Rate: No Data 8.5 - 8.8 Molecular Formula: Mixture

Viscosity: 265 - 320 cps Flammability: No Data Flash Point: No Data

Lower Flammable/Explosive Limit: Not Applicable Upper Flammable/Explosive Limit: Not Applicable

VOC Content: 165 -180 g/L (Regulatory Less Water)

SECTION 10: STABILITY and REACTIVITY

Chemical Stability:

Vapor Pressure:

Chemical Stability: Stable under normal temperatures and pressures.

Possibility of hazardous reactions:

Hazardous Polymerization: Not reported.

Conditions To Avoid:

Conditions to Avoid: Heat, flames, incompatible materials, and freezing or temperatures below 32 deg. F.

Incompatible Materials:

Incompatible Materials: Oxidizing agents. Strong acids and alkalis.

Clear Shield Matte Perma-Chink Systems, Inc. Revision: 5/5/2025 Page 3 of 5

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

Propylene glycol:

Administration into the eye - Rabbit Standard Draize test: 100 mg [Mild]

Administration into the eye - Rabbit Standard Draize test: 500 mg/24H [Mild] (RTECS)

Skin:

Administration onto the skin - Rabbit LD50 - Lethal dose, 50 percent kill: 20800 mg/kg [Details of toxic effects not reported other than lethal dose value]

Administration onto the skin - Rabbit LD50 - Lethal dose, 50 percent kill: 20800 mg/kg [Behavioral - Ataxia Behavioral - Tetany Lungs, Thorax, or Respiration - Respiratory depression] (RTECS)

Oral - Rat LD50 - Lethal dose, 50 percent kill: 20 gm/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)

Amorphous Silica:

Ingestion:

Administration into the eye - Rabbit Standard Draize test: 25 mg/24H [Mild] (RTECS) Eve:

2-Propyl,1-(2-butoxy-1-methylethoxy)-:

Skin: Rabbit - LD50 5860 uL/kg.

Ingestion: Rat - LD50 1620 uL/kg

Butoxy ethanol:

Serious eye damage/irritation. Eye:

Guinea pig - > 2,000 mg/kg Skin: RAT - LD50: 1,300 mg/kg Ingestion:

Rat - LC50: 2.56 mg/L, exposure 4 hrs. Inhalation:

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

Ecotoxicity: No data Environmental Fate: No data.

SECTION 13: DISPOSAL CONSIDERATIONS

Description of waste:

IMDG Shipping Name :

Waste Disposal: Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous

waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local

guidelines.

SECTION 14: TRANSPORT INFORMATION

DOT Shipping Name: Not restricted as a dangerous good.

DOT UN Number: Not restricted as a dangerous good.

IATA Shipping Name: Not restricted as a dangerous good.

IATA UN Number: Not restricted as a dangerous good.

Canadian Shipping Name: Not restricted as a dangerous good.

Canadian UN Number: Not restricted as a dangerous good.

Not restricted as a dangerous good. IMDG UN Number:

Not restricted as a dangerous good.

ADR UN Number: Not restricted as a dangerous good.

Not restricted as a dangerous good. ADR Shipping Name:

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SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product:

Propylene glycol:

TSCA Inventory Status: Listed Canada DSL: Listed EC Number: 200-338-0

Amorphous Silica:

Listed TSCA Inventory Status: Canada DSL: Listed 262-373-8 EC Number:

2-Propy,1-(2-butoxy-1-methylethoxy)-:

Listed TSCA Inventory Status: Listed Canada DSL: 249-951-5 EC Number:

2-Butoxy ethanol:

Listed TSCA Inventory Status: Listed Canada DSL: 203-905-0 EC Number:

SECTION 16: ADDITIONAL INFORMATION

HMIS Ratings:

HMIS Health Hazard: HMIS Fire Hazard: 1 HMIS Reactivity: O **HMIS Personal Protection:** Χ Health Hazard Fire Hazard Reactivity 0 **Personal Protection** X

SDS Creation Date: May 5, 2025 SDS Revision Date: May 5, 2025

SDS Format:

SDS Author:

Perma-Chink Systems, Inc.

Disclaimer:

The information contained herein is, to the best of Perma-Chink Systems, Inc. knowledge, accurate as of the date indicated. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar, and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume responsibility for the results of its use. This information is furnished on the condition that the person receiving it shall make their own determination as to the suitability of the material for their particular purpose and on the condition that they assume the risk of use thereof.

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