



Safety Data Sheet

Monopole, Inc.

Product Name: PERMASHIELD 200 CLEAR PART A

Issue Date: January 2023

Monopole Inc. encourages and expects you to read and understand the entire SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

SECTION 1: Identification

Product Name: PERMASHIELD 200 CLEAR PART A

Product Codes

5350: Clear, Gloss
5355: Clear, Matte
5370: Neutral, Gloss
5375: Neutral, Matte

COMPANY IDENTIFICATION

Monopole, Inc.
4661 Alger Street
Los Angeles, CA 90039
Tel: (818) 500-8585
Fax: (818) 502-0818

EMERGENCY TELEPHONE NUMBERS:

Health Emergency: (818) 500-8585
Poison Center : (800) 222-1222
Chemtrec : (800) 424-9300

SECTION 2: Hazard Identification

This product is not classified as hazardous according to OSHA HazCom 2012 (29 CFR 1910.1200).

GHS Classification

Not Classified

GHS Label Elements

Hazard Symbol	No symbol
Single Word:	No single word.
Hazard Statements:	Not Applicable

Precautionary Statements: Prevention:
Do not breathe dust, mist, gas, vapors or spray.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves.
In case of inadequate ventilation wear respiratory protection. The type of respiratory protection selected must comply with the requirements set forth in OSHA's Respiratory Protection Standard (29 DFR 1910.134) or regional standards.

Response:
IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical attention.
IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a doctor or emergency medical facility. Call a doctor or emergency medical facility if you feel unwell.

Was contaminated clothing before reuse.

Storage:

Store in a well-ventilated place. Keep container tightly closed. Store in temperatures above freezing.

Disposal:

Dispose of in accordance with local laws.

SECTION 3: Composition/Information on Ingredients

Hazardous Components	% (by weight)	CAS#	Classification
Part A-0.72 There are no hazardous components above the relevant concentration limits according to OSHA HazCom 2012.			
Water	30-40	7732-18-5	
Triethanolamine	0.015	Proprietary	

SECTION 4: First Aid Procedures

Eye Contact: Immediately flush eyes with plenty of water, preferably lukewarm. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined and treated by medical personnel.

Inhalation: Inhalation is unlikely due to low vapor pressure. If affected by odor, remove victim to fresh air.

Skin Contact: Wash material off the skin thoroughly with plenty of soap and water. If redness, itching, or a burning sensation develops, get medical attention. Wash contaminated clothing and decontaminates footwear before reuse.

Ingestion: Do not induce vomiting. Give 1 or 2 glasses of milk or water to drink and refer person to medical personnel. Do not give anything by mouth to an unconscious person.

SECTION 5: Fire Fighting Measures

Extinguishing Media: Dry chemical, foam, carbon dioxide, foam, or water spray for large fires.

Fire Fighting Procedures: Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes. Use cold water spray to cool fire-exposed containers to minimize the risk of rupture.

Hazardous Decomposition Products: Carbon dioxide, carbon monoxide, nitrogen oxides, ammonia, trace amounts of hydrogen cyanide and unidentified organic compounds may be formed during combustion.

SECTION 6: Accidental Release Measures

Spill or Leak Procedures: Dike or dam spilled material and control further spillage, if possible. Prevent from entering open drains and waterways. Cover spill with inert material (dry sand or earth) and collect for proper disposal. Ventilate area to remove vapors or dust.

SECTION 7: Handling and Storage

Handling/Storage Precautions: Handle in accordance with good industrial hygiene and safety practices. Wash thoroughly after handling. Keep container closed when not in use. Protect from freezing.

Storage: 6 months from manufacture date.

Storage Temperature: Minimum: 50°F; Maximum: 77°F

Storage Conditions: Protect from freezing. Store in a cool dry place. Store in original or similar containers. Store separate from food products.

Substances To Avoid: Water reactives, Oxidizing agents

SECTION 8: Exposure Controls / Personal Protection

Ventilation: Local exhaust is necessary to control airborne vapors, mists, dusts. Application operations should be ventilated to control fumes.

Respiratory Protection: None required under normal conditions of use.

Hand Protection: Permeation resistant gloves. Butyl rubber gloves. Nitrile rubber gloves.

Eye Protection: Chemical safety goggles and side shield.

Skin Protection: Permeation resistant clothing. Gloves, long sleeved shirts and pants.

Additional Protective Measures: Unhindered access to safety shower and eye wash stations. As a general hygienic practice, wash hands and face after use. Showers and cleaning of clothes are recommended. Follow all label instructions. Educate and train employees in safe use of product.

SECTION 9: Physical and Chemical Properties

Boiling Point: 212°F (100°C)

Freezing Point: 32°F (0.0°C)

V.O.C. (Combined Part A & Part B): < 10 g/L

Vapor Density: N/E

Solubility in Water: Soluble

Color And Odor: Milky White, Mild Odor

pH: 7 - 7.5

5350 Clear Gloss Part A Specific Gravity: 1.08 g/cm³

5355 Clear Matte Part A Specific Gravity: 1.032 g/cm³

SECTION 10: Stability and Reactivity

Hazardous Reactions: No hazardous reactions with proper storage and handling.

Stability: Stable under normal conditions.

Conditions to Avoid: Moisture and protect from freezing.

Incompatibility (Materials to Avoid): None known.

Hazardous Decomposition Products: None with proper storage and handling.

SECTION 11: Toxicological Information

Likely Routes of Exposure: Inhalation, Skin, Eye, Ingestion.

Carcinogenicity:

NTP: No

IARC Monographs: No

OSHA Regulated: No

SECTION 12: Ecological Information

No information available.

SECTION 13: Disposal Information

Waste Disposal Method: Dispose of in compliance with all relevant local, state, and federal laws and regulations regarding treatment.

SECTION 14: Transportation Information

DOT Proper Shipping Name: Not regulated.

IATA Proper Shipping Name: Not regulated.

IMO Proper Shipping Name: Not regulated.

SECTION 15: Regulatory Information

US Federal Regulations

Toxic Substance Control Act: None present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4): None present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA). Not classified.

U.S. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) – Supplier Notification Required. None present in regulated quantities.

Clean Air Act Section 112® Accidental Release Prevention (40 CFR 68.130): None present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3). None present in regulated quantities.

US State Regulations

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986): To the best of our knowledge, this product does NOT contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects, or other reproductive harm.

New Jersey Worker and Community Right-to-Know Act. No ingredient regulated by NJ Right-to-Know Law present.

Massachusetts RTK – Substance List. No ingredient regulated by MA Right-to-Know Law present.

Pennsylvania RTK – Hazardous Substances. No ingredient regulated by PA Right-to-Know Law present.

Rhode Island TRK. No ingredient regulated by RI Right-to-Know Law present.

SECTION 16: Other Information

USER'S RESPONSIBILITY: A bulletin such as this cannot be expected to cover all possible individual situations. As the user has the responsibility to provide a safe workplace, all aspects of an individual operation should be examined to determine if, or where, precautions, in addition to those described herein, are required. Any health hazard and safety information herein should be passed on to your customers or employees, as the case may be.

DISCLAIMER: To the best of our knowledge, the information contained herein is accurate, but no representation, guarantee or warranty, expressed or implied, is made as to the accuracy, reliability or completeness of the information. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Monopole Inc. urges persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.



Safety Data Sheet

Monopole, Inc.

Product Name: PERMASHIELD 200 PART B

Issue Date: January 2023

Monopole Inc. encourages and expects you to read and understand the entire SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

SECTION 1: Identification

Product Name: PERMASHIELD 200 PART B

Product Codes

5350: Clear, Gloss
5355: Clear, Matte
5360: White Base, Gloss
5370: White Base, Matte
5370: Neutral, Gloss
5375: Neutral, Matte

COMPANY IDENTIFICATION

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EMERGENCY TELEPHONE NUMBERS:

Health Emergency: (818) 500-8585
Poison Center : (800) 222-1222
Chemtrec : (800) 424-9300

SECTION 2: Hazard Identification

GHS Classification

Acute toxicity (Inhalation): Category 4
Respiratory Sensitization: Category 1
Skin Sensitization: Category 1
Specific Target Organ Toxicity: Category 3 (Respiratory System) single exposure
Specific Target Organ Toxicity: Category 2 (Lungs) repeated exposure

GHS Label Elements

Hazard Pictograms



Single Word:

Danger

Hazard Statements:

May cause an allergic skin reaction.
Harmful if inhaled.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause respiratory irritation.
May cause damage to organs (Lungs) through prolonged or repeated exposure if inhaled.

Precautionary Statements:

Prevention:

Do not breathe dust, mist, gas, vapors or spray.

Use only outdoors or in a well-ventilated area.
 Contaminated work clothing must not be allowed out of the workplace.
 Wear protective gloves.
 In case of inadequate ventilation wear respiratory protection. The type of respiratory protection selected must comply with the requirements set forth in OSHA's Respiratory Protection Standard (29 DFR 1910.134) or regional standards.

Response:
 IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical attention.
 IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a doctor or emergency medical facility. Call a doctor or emergency medical facility if you feel unwell.
 Was contaminated clothing before reuse.

Storage:
 Store in a well-ventilated place. Keep container tightly closed. Store in temperatures above freezing.

Disposal:
 Dispose of in accordance with local laws.

SECTION 3: Composition/Information on Ingredients

Hazardous Components	% (by weight)	CAS#	Classification
Hexamethylene Diisocyanate	60-80	Proprietary	Acute toxicity Category 4 Inhalation. Respiratory sensitization Category 1. Skin sensitization Category 1. Specific target organ toxicity – single exposure Category 3 Respiratory system. Specific target organ toxicity – repeated exposure Category 2 Inhalation Lungs.
Aliphatic Polyisocyanate	20-30	Proprietary	Acute toxicity Category 3 Inhalation. Skin sensitization Category 1. Specific target organ toxicity – single exposure Category 3 Respiratory system.

SECTION 4: First Aid Procedures

Eye Contact: Immediately flush eyes with plenty of water, preferably lukewarm. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined and treated by medical personnel.

Inhalation: Inhalation is unlikely due to low vapor pressure. If affected by odor, remove victim to fresh air.

Skin Contact: Wash material off the skin thoroughly with plenty of soap and water. If redness, itching, or a burning sensation develops, get medical attention. Wash contaminated clothing and decontaminates footwear before reuse.

Ingestion: Do not induce vomiting. Give 1 or 2 glasses of milk or water to drink and refer person to medical personnel. Do not give anything by mouth to an unconscious person.

Most Important Symptom:
 Acute: Isocyanate vapors or mist at high concentrations can irritate the mucous membranes in the respiratory tract with symptoms of runny nose, sore throat, coughing chest discomfort, shortness of breath and reduced lung function. Persons with a preexisting, nonspecific bronchial hyperactivity can respond to concentrations below the exposure limits or guidelines with similar symptoms as well as asthma attack or asthma-like symptoms.

May cause skin irritation with symptoms or reddening, itching and swelling. Can cause sensitization.

May cause eye irritation with symptoms of reddening, tearing, stinging, and swelling. May cause temporary corneal injury. Vapor or aerosol may cause irritation with symptoms of burning and tearing.

May cause irritation of the digestive tract; symptoms may include abdominal pain, nausea, vomiting.

Delayed: Symptoms affecting the respiratory tract can also occur several hours after overexposure.

SECTION 5: Fire Fighting Measures

Extinguishing Media: Dry chemical, foam, carbon dioxide, foam, or water spray for large fires.

Fire Fighting Procedures: Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes. Use cold water spray to cool fire-exposed containers to minimize the risk of rupture.

Hazardous Decomposition Products: Carbon dioxide, carbon monoxide, nitrogen oxides, ammonia, trace amounts of hydrogen cyanide and unidentified organic compounds may be formed during combustion.

SECTION 6: Accidental Release Measures

SPILL AND LEAK PROCEDURES

Implement site emergency response plan. Evacuate non-emergency personnel. The magnitude of the evacuation depends upon the quantity released, site conditions, and the ambient temperature. Isolate the area and prevent access of unauthorized personnel. Notify management. Call CHEMTREC at 1-800-424-9300 for assistance and advice.

Wear necessary personal protective equipment (PPE) as specified in the SDS or the site emergency response plan. Ventilate and remove ignition sources. Control the source of the leak. Contain the released material by damming, diking, retaining, or diverting into an appropriate containment area. Absorb or pump off as much of the spilled material as possible. When using adsorbent, completely cover the spill area with suitable adsorbent material (e.g., vermiculite, kitty litter, Oil-Dri®, etc) Allow for the adsorbent material to absorb the spilled liquid. Shovel the adsorbent material into an approved metal container (i.e., 55-gallon salvage drum). Do not fill the container more than 2/3 full to allow for expansion, and do not tighten the lid on the container. Repeat application of adsorbent material until all liquid has been removed from the surface.

Decontaminate the spill surface area using a neutralization solution (see list of solutions on the SDS): scrubbing the surface with a broom or brush helps the decontamination solution to penetrate into porous surfaces. Wait at least 15 minutes after application of the neutralization solution. Cover the area with adsorbent material and shovel this into an approved metal container. Check for residual surface contamination using Swype® test kits, available from Colorimetric Laboratories, Inc. (CLI) at 847-803-3737. If the Swype® test pad demonstrates that isocyanate remains on the surface (red color on pad). Repeat applications of neutralization solution, with scrubbing, followed by adsorbent until the surface is decontaminated (no color change on Swype® pad). Apply lid loosely to metal waste container (do not tighten the lid because carbon dioxide gas and heat can be generated from the neutralization process). With the lid still loosely in place, move the container to an isolated, well ventilated area to allow release of carbon dioxide. After 72 hours, seal the container, and properly dispose of the waste material and any contaminated equipment (i.e., broom or brush) in accordance with existing federal, state and local regulations.

ADDITIONAL SPILL PROCEDURES/NEUTRALIZATION

Products or product mixture that have been shown to be effective neutralization solutions for decontaminating surfaces, tools, or equipment that has been in contact with an isocyanate includes: Products available through industrial suppliers:

*Spartan Chemical Company: 1-800-537-8990:

- Spartan®ShineLine Emulsifier Plus

- Spartan® SC-200 Heavy Duty Cleaner
*Colorimetric Laboratories, Inc. (CLI): 1-800-803-3737
- Isocyanate Decontamination Solution
*Mix equal amounts of the following:
 - Mineral spirits (80%), VM&P Naphtha (15%), and household detergent (5%), and
 - A 50-50 mixture of monoethanolamine and water.
 In a separate container, blend the two solutions in a 1:1 ratio by volume. Immediately prior to applying this blended neutralization solution onto the contaminated surface area, mix or agitate the container to help ensure uniform mixing of the ingredients.

If the above products are not available, the following products can be obtained through retail outlets:

- *ZEP® Commercial Heavy DUTY Floor Stripper
- *Greases Lightning® Super Strength Cleaner and Degreaser
- *EASY OFF® Grill and Oven Cleaner or EASY OFF® Fume Free Oven Cleaner
- *A mixture of 50% Simple Green® Pro HD Heavy-Duty Cleaner and 50% household ammonia
- *A mixture of 90% Fantastic® Heavy Duty All Purpose Cleaner and 10% household ammonia.

Note: Always wear proper PPE when cleaning up an isocyanate spill and using a neutralization solution. It may take two or more application of the neutralization solution to decontaminate the surface. Check for residual surface contamination using a surface wipe method such as the CLI Swype® pad.

SECTION 7: Handling and Storage

STORAGE PERIOD: 9 Months @ 77 °F from manufacture date.

HANDLING/STORAGE PRECAUTIONS: Do not breathe vapors, mists, or dusts. Use adequate ventilation to keep airborne isocyanate levels below the exposure limits. Wear respiratory protection if material is heated, sprayed, used in a confined space, or if the exposure limit is exceeded. Warning properties (irritation of the eyes, nose and throat or odor) are not adequate to prevent overexposure from inhalation. This material can produce asthmatic sensitization upon either single inhalation exposure to a relatively high concentration or upon repeated inhalation exposures to lower concentrations. Individuals with lung or breathing problems or prior allergic reactions to isocyanates must not be exposed to vapor or spray mist. Avoid contact with skin and eyes. Wear appropriate eye and skin protection. Wash thoroughly after handling. Do not breathe smoke and gases created by overheating or burning this material. Decomposition products can be highly toxic and irritating. Store in tightly closed containers to prevent moisture contamination. Do not reseal if contamination is suspected.

FURTHER INFO ON STORAGE CONDITIONS: Employee education and training in the safe use and handling of this product are required under the OSHA Hazard Communication Standard 29 CFR 1910.1200. Store separate from food products.

SECTION 8: Exposure Controls / Personal Protection

Homopolymer of Hexamethylene Diisocyanate

Exposure Limit

Time Weighted Average (TWA): 0.5 mg/m³

Exposure Limit

Short Term Exposure Limit (STEL): 1.00 mg/m³ (15-min)

INDUSTRIAL HYGIENE/VENTILATION MEASURES: Good industrial hygiene practice dictates that worker protection should be achieved through engineering controls, such as ventilation, whenever feasible. When such controls are not feasible to achieve full protection, the use of respirators and other personal protective equipment is mandated. Exhaust air may need to be cleaned by scrubbers or filters to reduce environmental contamination. Curing ovens must be ventilated to prevent emissions into the workplace. If oven off-gases are not vented properly (i.e. they are released into the work area), it is possible to be exposed to airborne monomeric HDI.

RESPIRATORY PROTECTION: A respirator that is recommended or approved for use in isocyanate-containing environments (air-purifying or fresh air-supplied) may be necessary for spray applications or other situations such as high temperature use which may produce inhalation exposures. A supplied-air respirator (either positive pressure or continuous flow-type) is recommended. Before an air-purifying respirator can be used, air monitoring must be performed to measure airborne concentrations of HDI monomer and HDI polyisocyanate. Specific conditions under which air-purifying respirators can be used are outlined in the following sections. Observe OSHA regulations for respirator use (29 CFR 1910.134). **SPRAY APPLICATION:** A. Good industrial hygiene practice dictates that when isocyanate-based coatings are spray applied, some form of respiratory protection should be worn. During the spray application of coatings containing this product the use of a supplied-air (either positive pressure or continuous flow-type) respirator is mandatory when ONE OR MORE of the following conditions exists: -the airborne isocyanate concentrations are not known; or -the airborne isocyanate monomer concentrations exceed 0.05 ppm averaged over eight (8) hours (10 times the 8 hour TWA exposure limit); or -the airborne polyisocyanate (polymeric, oligomeric) concentrations exceed 5 mg/m³ averaged over 8 hours or 10 mg/m³ averaged over 15 minutes (10 times the 8 hour TWA or the 15 minute STEL exposure limits); or -operations are performed in a confined space (See OSHA Confined Space Standard, 29 CFR 1910.146). A properly fitted air-purifying (combination organic vapor and particulate) respirator, proven by test to be effective in isocyanate-containing spray paint environments, and used in accordance with all recommendations made by the manufacturer, can be used when ALL of the following conditions are met: -The airborne isocyanate monomer concentrations are known to be below 0.05 ppm averaged over eight (8) hours (10 times 8 hour TWA exposure limit); and -the airborne polyisocyanate (polymeric, oligomeric) concentrations are known to be below 5 mg/m³ averaged over 8 hours or 10 mg/m³ averaged over 15 minutes (10 times the 8 hour TWA or the 15 minute STEL exposure limits) and - a NIOSH-certified End of Service Life Indicator or a change schedule based upon objective information or data is used to ensure that cartridges are replaced before the end of their service life. In addition, prefilters should be changed whenever breathing resistance increases due to particulate buildup.

NON-SPRAY OPERATIONS: A. During non-spray operations such as mixing, batch-making, brush or roller application, etc., at elevated temperatures (for example, heating of material or application to a hot substrate), it is possible to be exposed to airborne isocyanate vapors. Therefore, when the coatings system will be applied in a non-spray manner, a supplied-air (either positive pressure or continuous flow-type) respirator is mandatory when ONE OR MORE of the following conditions exists: - the airborne isocyanate concentrations are not known; or - the airborne isocyanate monomer concentrations exceed 0.05 ppm averaged over eight (8) hours (10 times the 8 hour TWA exposure limit); or - the airborne polyisocyanate (polymeric, oligomeric) concentrations exceed 5 mg/m³ averaged over 8 hours or 10 mg/m³ averaged over 15 minutes (10 times the 8 hour TWA or the 15 minute STEL exposure limits); or - operations are performed in a confined space (See OSHA Confined Space Standard, 29 CFR 1910.146). A properly fitted air-purifying (combination organic vapor and particulate) respirator, proven by test to be effective in isocyanate-containing paint environments, and used in accordance with all recommendations made by the manufacturer, can be used when ALL of the following conditions are met: -the airborne concentrations of the isocyanate monomer are below 0.05 ppm averaged over eight (8) hours (10 times the 8 hour TWA exposure limit); and - the airborne polyisocyanate (polymeric, oligomeric) concentrations are known to be below 5 mg/m³ averaged over eight (8) hours or 10 mg/m³ averaged over 15 minutes (10 times the 8 hour TWA or the 15 minute STEL exposure limits) and - a NIOSH-certified End of Service Life Indicator or a change schedule based upon objective information or data is used to ensure that cartridges are replaced before the end of their service life. In addition, prefilters should be changed whenever breathing resistance increases due to particulate buildup.

HAND PROTECTION: Gloves should be worn. Nitrile rubber gloves, Butyl rubber gloves, Neoprene gloves.

EYE PROTECTION: When directly handling liquid product, eye protection is required. Examples of eye protection include a chemical safety goggle, or chemical safety goggle in combination with a full face shield when there is a greater risk of splash.

SKIN AND BODY PROTECTION: Avoid all skin contact. Depending on the conditions of use, cover as much of the exposed skin area as possible with appropriate clothing to prevent skin contact., Gloves, long sleeved shirts and pants.

MEDICAL SURVEILLANCE: All applicants who are assigned to an isocyanate work area should undergo a pre-placement medical evaluation. A history of eczema or respiratory allergies such as hay fever, are possible reasons for medical exclusion from isocyanate areas. Applicants who have a history of adult asthma should be restricted from work with isocyanates. Applicants with a history of prior isocyanate sensitization should be excluded from further work with isocyanates. A comprehensive annual medical surveillance program should be instituted for all employees who are potentially exposed to diisocyanates. Once a worker has been diagnosed as sensitized to any isocyanate, no further exposure can be permitted.

ADDITIONAL PROTECTIVE MEASURES: Emergency showers and eye wash stations should be available. Educate and train employees in the safe use and handling of this product. Follow all label instructions.

SECTION 9: Physical and Chemical Properties

Boiling Point: Decomposition

Freezing Point: No Data Available

V.O.C. (Combined Part A & Part B): < 10 g/L

Vapor Density: N/E

Solubility in Water: Soluble

Color And Odor: Light yellow, Slight Odor

pH: No data available

Specific Gravity: 1.15 g/cm³

SECTION 10: Stability and Reactivity

Hazardous Reactions: Hazardous polymerization does not occur.

Stability: Stable under normal conditions.

Conditions to Avoid: Moisture and protect from freezing.

Incompatibility (Materials to Avoid): Water reactives, oxidizing agents.

Hazardous Decomposition Products: Carbon dioxide, carbon monoxide, oxides of nitrogen.

SECTION 11: Toxicological Information

LIKELY ROUTS OF EXPOSURE: Skin Contact, Inhalation, Eye Contact

ACUTE:

May cause skin irritation with symptoms of reddening, itching and swelling. Can cause sensitization. Persons previously sensitized can experience allergic skin reaction with symptoms of reddening, itching, swelling and rash. Cured material is difficult to remove.

May cause eye irritation with symptoms of reddening, tearing, stinging and swelling. May cause temporary corneal injury. Vapor or aerosol may cause irritation with symptoms of burning and tearing.

May cause irritation of the digestive tract; symptoms may include abdominal pain, nausea, vomiting and diarrhea.

CHRONIC:

Prolonged contact with skin can cause reddening, swelling rash and in some cases, skin sensitization. Animal test and other research indicate that skin contact with isocyanates can play a role in causing isocyanate sensitization and respiratory reaction. This data reinforces the need to prevent direct skin contact with isocyanates.

Prolonged vapor contact with eyes may cause conjunctivitis.

DELAYED:

Respiratory track symptoms can occur several hours after exposure.

SECTION 12: Ecological Information

No information available.

SECTION 13: Disposal Information

Waste Disposal Method: Dispose of in compliance with all relevant local, state, and federal laws and regulations regarding treatment.

SECTION 14: Transportation Information

DOT Proper Shipping Name: Not regulated.

IATA Proper Shipping Name: Not regulated.

IMO Proper Shipping Name: Not regulated.

SECTION 15: Regulatory Information

UNITED STATES FEDERAL REGULATIONS

TOXIC SUBSTANCE CONTROL ACT: Listed on the TSCA inventory

US EPA CERCLA Hazardous Substances (40 CFR 302) Components: None

SARA Section 311/312 Hazard Categories: Acute & Chronic Health Hazard

U.S. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A) Components: None

U.S. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required Components: None

U.S. EPA Resource Conservation and Recovery Act (RCRA) Composite List of Hazardous Wastes and Appendix VIII Hazardous Constituents (40 CFR 261): Under RCRA, it is the responsibility of the person who generates a solid waste, as defined in 40 CFR 261.2, to determine if that waste is a hazardous waste.

State Right-To-Know Information

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the SDS may also be applicable for state requirements. For details on your regulatory requirements, you should contact the appropriate agency in your state.

Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists:

<u>Weight percent</u>	<u>Components</u>	<u>CAS-No.</u>
60 - 80%	Homopolymer of Hexamethylene Diisocyanate	28182-81-2
20 - 30%	Hydrophilic Aliphatic Polyisocyanate based on Hexamethylene Diisocyanate	666723-27-9

New Jersey Environmental Hazardous Substances List and/or New Jersey RTK Special Hazardous Substances Lists: No ingredient regulated by NJ Right-to-Know Law present.

CALIFORNIA PROPOSITION 65 (Safe Drinking Water and Toxic Enforcement Act of 1986): To the best of our knowledge, this product does NOT contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects, or other reproductive harm.

SECTION 16: Other Information

USER'S RESPONSIBILITY: A bulletin such as this cannot be expected to cover all possible individual situations. As the user has the responsibility to provide a safe workplace, all aspects of an individual operation should be examined to determine if, or where, precautions, in addition to those described herein, are required. Any health hazard and safety information herein should be passed on to your customers or employees, as the case may be.

DISCLAIMER: To the best of our knowledge, the information contained herein is accurate, but no representation, guarantee or warranty, expressed or implied, is made as to the accuracy, reliability or completeness of the information. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Monopole Inc. urges persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.