

SAFETY DATA SHEET

SECTION 1 - PRODUCT & COMPANY IDENTIFICATION

Product Name: 950 Aromatic Polyurea Product Code: 950-A 9495

Trade Name: 950-Clear - Isocyanate Part A

Adams Paint Mfg Company
1416 N University Ave
Lubbock, Tx 79415
Telephone Number: 806-763-2944
Web Site: adamspaintmfg.com

Emergency Contacts & Phone Numbers
Chemtrec: 800-424-9300
SDS Request Line: 806-763-2944

Product Use: See Product Data Sheet

Not recommended for: See Product Data Sheet

SECTION 2 - HAZARDS IDENTIFICATION

GHS Ratings:

Inhalation Toxicity	Acute Tox. 2	Gases>100+<=500ppm, Vapors>0.5+<=2mg/l, Dusts&mists>0.05+<=0.5mg/l
Skin corrosive	2	Reversible adverse effects in dermal tissue, Draize score: >= 2.3 < 4.0 or persistent inflammation
Eye corrosive	2A	Eye irritant: Subcategory 2A, Reversible in 21 days
Respiratory sensitizer	1	Respiratory sensitizer
Skin sensitizer	1	Skin sensitizer
Carcinogen	2	Limited evidence of human or animal carcinogenicity

GHS Hazards

H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H330	Fatal if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H351	Suspected of causing cancer

GHS Precautions

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P260	Do not breathe dust, fumes, gas, mist, vapors or spray
P261	Avoid breathing dust, fumes, gas, mist, vapors or spray
P264	Wash thoroughly after handling
P271	Use only outdoors or in a well-ventilated area
P272	Contaminated work clothing should not be allowed out of the workplace
P280	Wear protective gloves, protective clothing, eye protection and face protection
P281	Use personal protective equipment as required
P284	Wear respiratory protection
P285	In case of inadequate ventilation wear respiratory protection
P310	Immediately call a POISON CENTER or physician
P320	Specific treatment is urgent (see Section 4 of SDS on this label)
P321	Specific treatment (see Section 4 of SDS on this label)
P362	Take off contaminated clothing and wash before reuse
P363	Wash contaminated clothing before reuse
P302+P352	IF ON SKIN: Wash with soap and water

P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P304+P341	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P308+P313	IF exposed or concerned: Get medical attention
P332+P313	If skin irritation occurs: Get medical attention
P333+P313	If skin irritation or a rash occurs: Get medical attention
P337+P313	Get medical attention
P342+P311	Call a POISON CENTER or physician
P405	Store locked up
P403+P233	Store in a well ventilated place. Keep container tightly closed
P501	Dispose of contents and container in accordance with local and national regulations

Signal Word: Danger



SECTION 3 - COMPOSITION INFORMATION ON INGREDIENTS

Chemical Name	CAS number	Weight Concentration %
Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-hydroxy-, polymer with 1,1'-methylenebis[4-isocyanatobenzene]	9048-57-1	40.00% - 50.00%
4,4'-Methylenediphenyl diisocyanate	101-68-8	30.00% - 40.00%
Benzene, 1,1'-methylenebis[4-isocyanato-, homopolymer	25686-28-6	5.00% - 10.00%
Propylene carbonate	108-32-7	5.00% - 10.00%

SECTION 4 - FIRST AID MEASURES

Inhalation: Move exposed person fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

Eye Contact: Check for and remove contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

Skin Contact: Immediately wash skin with soap and water. Get medical attention if irritation develops. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion: Wash out mouth with water. Do Not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Notes to Physician: No specific treatment. treat symptomatically. Call medical doctor or poison control center immediately if large quantities have been ingested.

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point: 135 C (275 F)

LEL:

UEL:

Suitable Extinguishing Media: Use extinguishing agent suitable for the surrounding fire.

Specific Hazards arising from the Chemical: Due to reaction with water producing CO₂-gas, a hazardous build-up

of pressure could result if contaminated containers are re-sealed. Containers may burst if overheated.

Hazardous Combustion Products: May include carbon oxides, nitrogen oxides, hydrocarbons and HCN.

Protection of Firefighters: Water may be unsuitable as an extinguishing media, but helpful in keeping adjacent containers cool. If a leak or spill has ignited, use water spray to disperse the vapors and to protect the men attempting to stop leak.

Protective Equipment and Precautions for Firefighters: Wear self-contained breathing apparatus and full protective gear.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions: Immediately contact emergency personnel. Evacuate the area. Keep upwind to avoid inhalation of vapors. Clean-up should only be performed by trained personnel. Use proper personal protective equipment as listed in Section 8.

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

Methods for Clean-up: Contain and absorb large spillages with an inert, non-flammable, absorbant carrier (such as earth or sand). Then place in a chemical waste container for disposal.

SECTION 7 - HANDLING AND STORAGE

Handling: Avoid personal contact with the product or reaction mixture. Use with adequate ventilation. Avoid breathing aerosols, mists and vapors. Keep stocks of decontaminant readily available.

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

Storage: Store in a cool dry, well ventilated area. Keep container tightly closed. Keep away from moisture. Due to reaction with water producing CO₂-gas, a hazardous built-up of pressure could result if contaminated containers are resealed. Do not reseal contaminated containers. uncontaminated containers, free of moisture, may be resealed only after placing under a nitrogen blanket. Do not store in containers made of copper, copper alloys or galvanized surfaces.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro.-omega.-hydroxy-, polymer with 1,1'-methylenebis[4-isocyanatobenzene] 9048-57-1	Not Established	Not Established	Not Established
4,4'-Methylenediphenyl diisocyanate 101-68-8	Not Established	0.005 ppm TWA (listed under Methylene bisphenyl isocyanate (MDI))	NIOSH: 0.005 ppm TWA (listed under Methylene bisphenyl isocyanate); 0.05 mg/m ³ TWA 0.020 ppm Ceiling (10 min); 0.2 mg/m ³ Ceiling (10 min)
Benzene, 1,1'-methylenebis [4-isocyanato-, homopolymer 25686-28-6	Not Established	Not Established	Not Established
Propylene carbonate 108-32-7	Not Established	Not Established	Not Established

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.

Eye / Face Protection: Wear protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulations.

Skin Protection: Chemical-resistant gloves and chemical goggles, face-shield and synthetic apron or coveralls should be used to prevent contact with eye, 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 uncontrolled release, exposure levels are not known or any other circumstances where air-purifying respirators may not provide adequate protection.

General Hygiene Considerations: Avoid breathing vapor or mist. Avoid contact with eyes and skin. Wash thoroughly after handling and before eating or drinking.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance: Liquid	Odor: Slightly Musty
Vapor Pressure: 0.030 mmHg	Odor threshold: No Data
Vapor Density: Heavier than air	pH: No Data
Lbs / Gallon: 9.49	Melting point: No Data
Freezing point: No Data	Solubility: No Data
Boiling range: 242°C	Flash point: 275 F, 135 C
Evaporation rate: No Data	Flammability: No Data
Explosive Limits: 0%	Partition coefficient (n-octanol/water): No Data
Autoignition temperature: 240°C	Decomposition temperature: No Data
Viscosity: No Data	VOC g/l: 0.000

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability: Stable at room temperature. Reaction with water (moisture) produces CO₂-gas. Exothermic reaction with materials containing active hydrogen groups. This reaction becomes progressively more vigorous and can be violent at higher temperatures if the miscibility of the reaction partners is good or is supported by stirring or by the presence of solvents. MDI is insoluble with and heavier than water and sinks to the bottom but reacts slowly at the interface. A solid water-insoluble layer of polyurea is formed at the interface by liberating carbon dioxide gas. Hazardous reactions or instability may occur under certain conditions of storage or use.

Conditions to Avoid: Avoid high temperatures.

Incompatible Materials: Avoid contact with water, alcohols, amines, alkalis and acids.

Hazardous Decomposition Products: Incomplete combustion may produce carbon oxides, nitrogen oxides, hydrocarbons and HCN.

Hazardous Polymerization: Polymerization may occur at elevated temperatures in the presence of alkalis, tertiary amines and metal compounds.

SECTION 11 - TOXICOLOGICAL INFORMATION

Mixture Toxicity

Inhalation Toxicity LC50: 1mg/L

Component Toxicity

CAS Number

Description

% Weight

Carcinogen Rating

None

No Data

SECTION 12 - ECOLOGICAL INFORMATION

No additional information provided for this product. See Section 3 for chemical specific data.

Component Ecotoxicity

Propylene carbonate
96 Hr LC50 Cyprinus carpio: >1000 mg/L [semi-static]
48 Hr EC50 Daphnia magna: >500 mg/L
72 Hr EC50 Desmodesmus subspicatus: >500 mg/L

SECTION 13 - DISPOSAL CONSIDERATIONS

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

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
DOT	Other Regulated Substances, Liquid, N.O.S. (Methylene Diphenyl Diisocyanate) Single containers less than 5000 lbs are Not Regulated	3082	III	9

SECTION 15 - REGULATORY INFORMATION

Additional regulatory listings, where applicable.

CERCLA RQ:

<u>Component</u>	<u>RQ (lbs)</u>
4,4'-Methylenediphenyl diisocyanate	5000

SARA 311/312 Hazard Classes: Acute, Chronic

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

This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin:

- None

SARA 302 Components:

- None

SARA 313 TOXIC CHEMICALS:

101-68-8 4,4'-Methylenediphenyl diisocyanate 30 to 40 %

Toxic Substances Control Act (TSCA): All chemicals except those listed below appear in the Toxic Substances Control Act Chemical Substance Inventory.

- None

SECTION 16 - OTHER INFORMATION

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations and orders.

Reviewer Revision

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