SAFETY DATA SHEET

IsoCoat NRN 7060 Pol

Section 1: Product and Company Identification

Product name: IsoCoat NRN 7060 Pol

Manufacturer:
Isotec® International, Inc.
201 Longview Street
Canton, GA 30114
Customer Service: 800-234-6300

24 Hour Emergency Telephone Numbers:
Poison Control Center (Medical): (877) 800-5553
ChemTel: United States 800-255-3924 * International 1-813-248-0585

Section 2: Hazards Identification

GHS Classifications

Health:
Acute Toxicity (Oral), Category 4
Skin Corrosion, Category 1C
Serious Eye Damage, Category 1
Target Organ Toxicity (Repeated exposure), Category 2

GHS Label


Exclamation mark


Health


Corrosion

Signal Word: Danger.

Hazard Statements
H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H373: May cause damage to pancreas through prolonged or repeated exposure.

Precautionary Statements
Prevention:
P260: Do not breathe mist, vapors, and spray.
P264: Wash hands thoroughly after handling.
P270: Do not eat, drink, or smoke when using this product.
P280: Wear protective gloves, protective clothing, eye protection and face protection.

Response:

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P363: Wash contaminated clothing before reuse.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER.

P314: Get medical advice if you feel unwell.

Section 3: Composition/Information on Ingredients

Component	% (weight)	Product Identifier
Polyoxypropylenediamine	55-75	CAS No. 9046-10-0
Diethylmethylbenzenediamine	15-30	CAS No. 68479-98-1
Glyceryl poly(oxypropylene) triamine	5-15	CAS No. 64852-22-8

Section 4: First Aid Measures

Eyes: Immediately flush eyes with water for at least 15 minutes. Remove contact lenses, if present. Obtain medical attention without delay.

Skin: Immediately flush skin with water for at least 15 minutes. Remove contaminated clothing and shoes. Obtain medical attention without delay.

Ingestion: Do not induce vomiting. Give one or two glasses of water to drink. Never give anything by mouth to an unconscious person. Obtain medical attention without delay.

Inhalation: Move person to fresh air. If respiratory distress develops, seek medical attention.

Section 5: Firefighting Measures

Extinguishing Media: Water fog, foam, dry chemical, or carbon dioxide.

Hazardous Combustion Products: Carbon oxides and nitrogen oxides.

Fire Fighting Procedures: Use water spray to cool fire-exposed containers.

Fire Fighting Equipment: Exposed firefighters must wear NIOSH-approved positive pressure self-contained breathing apparatus with full-face mask and full protective clothing.

Section 6: Accidental Release Measures

Personal Protection: Wear protective equipment listed in Section 8.

Small Spill: Isolate the area and prevent entry of unnecessary and unprotected personnel. Do not walk through or otherwise scatter spilled product. Absorb with dry chemical absorbent, earth, sand, or any other inert material. Place in a chemical waste container.

Large Spill: Same procedure as for a small spill. Prevent entry into waterways, sewers, basements, or confined areas.

Section 7: Handling and Storage

Handling: Do not get in eyes, on skin or on clothing. Wash hands before eating, drinking, or smoking. Keep container closed when not in use. Do not reseal if contaminated. Keep away from heat and flame.

Storage: Store in tightly closed containers in cool, dry, and well-ventilated area away from heat or sources of ignition. Keep out of direct sunlight.

Storage Temperature: Minimum 12.8 - 15.5 °C (55 - 60 °F)

Section 8: Exposure Controls/Personal Protection

Engineering Controls: Local exhaust ventilation used in combination with general ventilation as necessary to control air contaminates.

Eyes and Face: Wear a face shield and chemical safety glasses or goggles.

Skin: Wear impervious gloves. Cover exposed skin.

Respiratory: When product is applied as a spray, wear a NIOSH approved air-purifying respirator equipped with organic vapor cartridges.

Work Hygienic Practices: Avoid eating, drinking, or smoking while using this material. Wash hands thoroughly after handling.

Section 9: Physical and Chemical Properties

Appearance	Various colors.
Odor	Amine.
Autoignition Temperature	Not established.
Freezing Point	Not established.
Boiling Point	Not established.
Flash Point (Closed Cup)	> 93.3°C (200°F)
Solubility in water	Partial.
Specific Gravity (water = 1)	1.01 to 1.06 at 25°C (77°F)
Viscosity (centipoise)	400 to 600 at 25°C (77°F)

Section 10: Stability and Reactivity

Stability: Stable.

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Products: Carbon oxides, nitrogen oxides, amines, and other undetermined aliphatic fragments.

Incompatible Materials: Strong acids and strong oxidizers.

Section 11: Toxicological Information

Acute:

Component	Oral LD_{50} (rat)	Dermal LD_{50} (rabbit)
Polyoxypropylenediamine	480 mg/kg	2090 mg/kg
Diethylmethylbenzenediamine	738 mg/kg	> 2000 mg/kg
Glyceryl poly(oxypropylene) triamine	2690 mg/kg	12500 mg/kg

Carcinogenicity:
IARC: Not regulated as a carcinogen.
NTP: Not regulated as a carcinogen.
OSHA: Not regulated as a carcinogen.

Section 12: Ecological Information

Ecotoxicological Information:
Diethylmethylbenzenediamine: EC_{50} (Daphnia magna) 0.5 mg/l/48h

Section 13: Disposal Considerations

Disposal Method: Dispose in accordance with local, state, provincial or national regulations.

Empty Container: Decontaminate and pass to an approved drum recycler or destroy.

RCRA/EPA Waste Information: If discarded in its purchased form, this material is not a RCRA hazardous waste.

General Comments: The generation of waste should be avoided or minimized whenever possible. Chemical waste, even small quantities, should never be poured into drains, sewers, or waterways.

Section 14: Transport Information

U.S. DOT: Not regulated.
ICAO/IATA: Not regulated.
IMO/IMDG: Not regulated.

Section 15: Regulatory Information

United States

SARA Title III (Superfund Amendments and Reauthorization Act)

311/312 Hazard Categories: Acute, Chronic.

313 Reportable Components: None.

CERCLA (Comprehensive Environmental Response and Liability Act) None.

TSCA (Toxic Substances Control Act): All components are in TSCA inventory.

RCRA Status: If discarded in its purchased form, this material is not a RCRA hazardous waste.

Section 16: Other Information

Date Issued: June 28, 2012
Revised: May 12, 2021 Rev #5

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Abbreviations and Acronyms:

ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstracts Service
EC_{50}	Median effective concentration
EINECS	European Inventory of Existing Commercial Chemical Substances
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
LC_{50}	Lethal concentration to 50% of exposed laboratory animals
LD_{50}	Lethal dose to 50% of exposed laboratory animals
TWA	Time-weighted average
TLV	Threshold limit value
NIOSH	US National Institute of Occupational Safety and Health
NE	Not established
NTP	US National Toxicology Program
OEL	Occupational exposure limit
OSHA	US Occupational Safety Health Administration
PEL	Permissible exposure limit
RQ	Reportable quantity
STEL	Short term exposure limit

U.S. DOT	United States Department of Transportation

SAFETY DATA SHEET

IsoCoat NRN 7060 Iso

Section 1: Product and Company Identification

Product name: IsoCoat NRN 7060 Iso

Manufacturer:
Isotec® International, Inc.
201 Longview Street
Canton, GA 30114
Customer Service: 800-234-6300

24 Hour Emergency Telephone Numbers:
Poison Control Center (Medical): (877) 800-5553
ChemTel: United States 800-255-3924 * International 1-813-248-0585

Section 2: Hazards Identification

GHS Classifications

Health:

Acute Toxicity (Inhalation), Category 4
Skin Irritation, Category 2
Eye Irritation, Category 2A
Respiratory Sensitization, Category 1
Skin Sensitization, Category 1
Target Organ Toxicity Single Exposure, Category 3
Target Organ Toxicity Repeated Exposure, Category 2

GHS Label

Health hazard

Exclamation mark

Signal Word: Danger.

Hazard Statements

H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H332: Harmful if inhaled.
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335: May cause respiratory irritation.
H373: May cause damage to respiratory system through prolonged or repeated exposure.

Precautionary Statements

Prevention:

P260: Do not breathe mist, vapors, and spray.
P264: Wash skin 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.
P285: In case of inadequate ventilation wear respiratory protection.

Response:

P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P362: Take off contaminated clothing.
P333+P313: If skin irritation or rash occurs: Get medical attention.
P304+P340: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P312: Call a POISON CENTER or doctor if you feel unwell.
P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER or physician.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313: If eye irritation persists: Get medical attention.
P314: Get medical advice if you feel unwell.

Section 3: Composition/Information on Ingredients

Component	% (weight)	Product Identifier
4,4'-Diphenylmethane diisocyanate	40-60	CAS No. 101-68-8
MDI Prepolymer	30-50	CAS No. 96328-90-4
Propylene carbonate	5-15	CAS No. 108-32-7

Section 4: First Aid Measures

Eyes: Immediately flush eyes with plenty of water. Remove contact lenses, if present. Seek medical attention if irritation persists.

Skin: Immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Seek medical attention if irritation or rash occurs.

Ingestion: If person is conscious, wash out mouth with water. Do not induce vomiting unless instructed to do so by a poison center or physician.

Inhalation: Move person to fresh air. Seek medical attention if symptoms of respiratory distress occur. Symptoms may be delayed for several hours.

Section 5: Firefighting Measures

Extinguishing Media: Water fog, foam, dry chemical or carbon dioxide.

Hazardous Combustion Products: Carbon oxides, nitrogen oxides, isocyanates, and trace amounts of hydrogen cyanide.

Explosion Hazards: Water contamination produces carbon dioxide gas. This may cause pressurization or explosion of containers.

Fire Fighting Equipment: Exposed firefighters must wear NIOSH-approved positive pressure self-contained breathing apparatus with full-face mask and full protective clothing.

Section 6: Accidental Release Measures

Personal Protection: Wear protective equipment listed in Section 8.

Small Spill: Isolate the area and prevent entry of unnecessary and unprotected personnel. Do not walk through or otherwise scatter spilled product. Absorb with dry chemical absorbent. Place in a chemical waste container.

Large Spill: Same procedure as for a small spill. Prevent entry into waterways, sewers, basements, or confined areas. Allow to stand uncovered 48 hours before closing the waste container.

Comment: Avoid using earth, sand, and clay as absorbents as these can be wet. Isocyanates react with water to form carbon dioxide. Carbon dioxide functions as a blowing agent, causing the product to foam. Allow the waste container to stand uncovered 48 hours before closing. Reaction with water can be slow. Build-up of carbon dioxide in a closed container can rupture the container.

General Procedures: Clean spill area with a decontamination solution. Suggested formulation: Sodium carbonate (5 10%), liquid detergent (1-2%), water (88-94%). Alternate formulation: Concentrated ammonia (3-8%), liquid detergent (1-2%), water (90-96%). Ensure adequate ventilation to prevent overexposure of ammonia.

Section 7: Handling and Storage

Handling: Do not get in eyes, on skin or on clothing. Wash hands before eating, drinking, or smoking. Do not breathe vapors or mists. Use only with adequate ventilation. Keep container closed when not in use. Do not reseal if contaminated. Keep away from heat and flame.

Storage: Store in tightly closed containers in cool, dry, and well-ventilated area away from heat or sources of ignition. Keep out of direct sunlight.

Storage Temperature: 15.5 °C (60 °F) to 37.7 °C (100 °F)

Section 8: Exposure Controls/Personal Protection

Exposure limits:

Component	CAS No.	OSHA/PEL	ACGIH/TLV

4,4'-Diphenylmethane diisocyanate	101-68-8	0.02 ppm (Ceiling) 0.20 mg/m^3 (Ceiling)	0.005 ppm 0.051 mg/m^3

Engineering Controls: Local exhaust ventilation used in combination with general ventilation as necessary to control air contaminates.

Eyes and Face: Wear a face shield and chemical safety glasses or goggles.

Skin: Wear impervious gloves. Cover exposed skin.

Respiratory: For airborne exposure above the exposure limit(s), wear a NIOSH approved air-purifying respirator equipped with organic vapor cartridges. For situations where the atmospheric levels may exceed the level for which an air-purifying respirator is effective, use a positive-pressure air-supplying respirator.

Work Hygienic Practices: Avoid eating, drinking, or smoking while using this material. Wash hands thoroughly after handling.

Section 9: Physical and Chemical Properties

Appearance	Colorless to light yellow liquid.
Odor	Slightly musty.
Autoignition Temperature	> 300°C (572°F)
Freezing Point	Not established.
Boiling Point	Not established.
Flash Point (Closed Cup)	> 93.3°C (200°F)
Vapor Pressure	< 0.001 mmHg at 25°C (77°F)
Vapor Density (air = 1)	Heavier than air.
Solubility in water	Insoluble.
Specific Gravity (water = 1)	1.14 at 25°C (77°F)
Viscosity (centipoise)	1000 at 25°C (77°F)

Section 10: Stability and Reactivity

Stability: Stable.

Hazardous Polymerization: Can be caused by elevated temperatures.

Hazardous Decomposition Products: Carbon oxides, nitrogen oxides, isocyanates, and trace amounts of hydrogen cyanide.

Incompatible Materials: This product will react with any materials containing active hydrogens such as water, alcohol, amines, bases, and acids. The reaction with water is very slow under 50°C (122°F) but is accelerated at higher temperatures.

Section 11: Toxicological Information

Acute:

Component	Oral LD_{50} (rat)	Dermal LD_{50} (rabbit)	Inhalation LC_{50} (rat)
4,4'-Diphenylmethane diisocyanate	> 10000 mg/kg	> 9400 mg/kg	1.36 mg/l/4h

Carcinogenicity:

IARC: Not regulated as a carcinogen.
NTP: Not regulated as a carcinogen.
OSHA: Not regulated as a carcinogen.

Section 12: Ecological Information

Ecotoxicological Information:

MDI: LC_{50} (zebra fish) > 500 mg/l/96h. EC_{50} (Daphnia magna) > 500 mg/l/24h.

Section 13: Disposal Considerations

Disposal Method: Dispose in accordance with local, state, provincial or national regulations.

Empty Container: Decontaminate and pass to an approved drum recycler or destroy.

RCRA/EPA Waste Information: If discarded in its purchased form, this material is not a RCRA hazardous waste.

General Comments: The generation of waste should be avoided or minimized whenever possible. Chemical waste, even small quantities, should never be poured into drains, sewers, or waterways.

Section 14: Transport Information

U.S. DOT: Not regulated when shipped below reportable quantity.
ICAO/IATA: Not regulated.
IMO/IMDG: Not regulated.

Section 15: Regulatory Information

United States

SARA Title III (Superfund Amendments and Reauthorization Act)

311/312 Hazard Categories: Acute, Chronic, Reactive.

313 Reportable Components:

Component	CAS No.
4,4'-Diphenylmethane diisocyanate (Category Diisocyanate Compounds)	101-68-8

CERCLA (Comprehensive Environmental Response and Liability Act)

Component	RQ (lbs)
4,4'-Diphenylmethane diisocyanate	5000

TSCA (Toxic Substances Control Act): All components are in TSCA inventory.

RCRA Status: If discarded in its purchased form, this material is not a RCRA hazardous waste.

National Response Center: Any spill or release to the environment above the RQ must be reported to the National Response Center (800-424-8802).

Section 16: Other Information

Date Issued: June 28, 2012
Revised: May 12, 2021 Rev #5

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