

IsoMold CMR 7001 UV Pol

1. Identification

Product identifier: IsoMold CMR 7001 UV Pol

Manufacturer

Isotec International, Inc.
201 Longview Street
Canton, GA 30114
Customer Service: 800-234-6300
Web: www.isotecintl.com

Emergency telephone number (24 hour)

Poison Control Center (Medical) : (800) 222-1222
ChemTel (US Transportation) : (800) 255-3924

2. Hazard identification

Classification of the substance or mixture

Health hazards:

Skin Sensitization, Category 1

Label elements



Exclamation
mark

Signal word: WARNING

Hazard statement(s)

H317: May cause an allergic skin reaction.

Precautionary statement(s)

Prevention:

P261: Avoid breathing mist, vapors and spray.
P272: Contaminated work clothing should not be allowed out of the workplace.
P280: Wear protective gloves, protective clothing, eye protection and face protection.

Response:

P302+P352: IF ON SKIN: Wash with plenty of water.
P333+P313: If skin irritation or rash occurs: Get medical advice.
P362+P364: Take off contaminated clothing and wash it before reuse.

3. Composition/information on ingredients

| Chemical name | % w/w | CAS No. |
|---|---------|-------------|
| Diisononyl Phthalate | 10 - 20 | 28553-12-0 |
| 4-methyl-2,6-bis(methylthio)-1,3-benzenediamine | 5 - 10 | 102093-68-5 |
| 2-methyl-4,6-bis(methylthio)-1,3-benzenediamine | 1 - 3 | 104983-85-9 |
| UV Stabilizer | 1 - 3 | |

4. First-aid measures

Eye: Immediately flush eyes with plenty of water.

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

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occurs.

Ingestion: If person is conscious, wash out mouth with water. Give one or two glasses of water to drink. Never give anything by mouth to an unconscious person. Do not induce vomiting unless instructed to do so by poison center or doctor.

Inhalation: Move person to fresh air.

5. Fire-fighting measures

Suitable extinguishing media: Water fog, foam, dry chemical and carbon dioxide.

Fire fighting equipment: Fire fighters must wear NIOSH-approved positive pressure self-contained breathing apparatus with full-face mask and full protective clothing.

6. Accidental release measures

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 and confined areas.

7. Handling and storage

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

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

Storage temperature: Minimum 12.8 to 15.5 °C (55 to 60 °F)

8. Exposure controls/personal protection

Appropriate engineering controls: Local exhaust ventilation used in combination with general ventilation as necessary to control air contaminates.

Individual protection measures, such as personal protective equipment

Eye / face protection: Wear a face shield and chemical safety glasses or goggles.

Skin protection - hand protection: Wear impervious gloves. Cover exposed skin.

Respiratory protection: In case of formation of vapors or aerosols, wear a NIOSH approved air-purifying respirator equipped with organic vapor cartridges.

Occupational hygiene practices: Avoid eating, drinking or smoking while using this product. Wash hands thoroughly after handling.

9. Physical and chemical properties

Physical state: Liquid

Color: Various colors

Odor: Mild

Freezing point: Not established

Initial boiling point and boiling range: Not established

Flash point: > 93.3°C (200°F)

Relative density: 1.03 to 1.05 (water = 1) at 25°C (77°F)

Solubility: Partial

Auto-ignition temperature: Not established

Dynamic viscosity: 1500 to 2000 cP at 25°C (77°F)

10. Stability and reactivity

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Dangerous polymerization: Will not occur

Chemical stability: Stable

Hazardous decomposition products: Carbon oxides and nitrogen oxides

Incompatible materials: Strong acids and strong oxidizers

11. Toxicological information

Acute toxicity

| Chemical name | LD ₅₀ (oral) mg/kg(rat) | LD ₅₀ (dermal) mg/kg(rabbit) | LC ₅₀ (inhalation) mg/l |
|---|---------------------------------------|--|---------------------------------------|
| Diisononyl Phthalate | > 10000 mg/kg | > 3160 mg/kg | > 4.4 mg/l/4h (rat) |
| 4-methyl-2,6-bis(methylthio)-1,3-benzenediamine | 1515 mg/kg | > 2000 mg/kg | |
| 2-methyl-4,6-bis(methylthio)-1,3-benzenediamine | 1515 mg/kg | > 2000 mg/kg | |

12. Ecological information

Aquatic ecotoxicity

| Chemical name | 96-hour LC ₅₀ | 48-hour EC ₅₀ |
|---|--------------------------------|--------------------------|
| 4-methyl-2,6-bis(methylthio)-1,3-benzenediamine | 7.3 mg/l (Oncorhynchus mykiss) | 0.9 mg/l (Daphnia magna) |
| 2-methyl-4,6-bis(methylthio)-1,3-benzenediamine | 7.3 mg/l (Oncorhynchus mykiss) | 0.9 mg/l (Daphnia magna) |

13. Disposal considerations

Disposal methods: 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.

14. Transport information

Comments: Not regulated as dangerous goods

15. Regulatory information

UNITED STATES

SARA Title III

311/312 Health hazards: Skin Sensitization

EPCRA Section 313 Toxic Chemicals

| Chemical name | % w/w | CAS No. |
|----------------------|---------|------------|
| Diisononyl Phthalate | 10 - 20 | 28553-12-0 |

TSCA (The Toxic Substances Control Act)

TSCA regulatory: All components are in TSCA inventory.

California Proposition 65

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| Chemical name | % w/w | Listed |
|----------------------|---------|----------|
| Diisononyl Phthalate | 10 - 20 | • Cancer |

16. Other information

Approved by: Loretta Priest **Title:** Health and Safety Officer

Date Prepared: 06/06/2023

Additional SDS information:

| | |
|------------------|---|
| 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 |

Manufacturer disclaimer: The information in this SDS was obtained from sources that we believe are reliable. The information is provided without warranty, implied or expressed, concerning accuracy. The manufacturer assumes no legal responsibility for use or reliance on this information. This SDS is provided solely for the purpose of conveying health, safety, and environmental information. This SDS is not a specification data sheet. Some of the information and conclusions may be derived from sources other than test data on the material itself.

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2. Hazard identification

Classification of the substance or mixture

Health hazards:

Acute Toxicity (Inhalation), Category 2
Skin Irritation, Category 2
Skin Sensitization, Category 1
Eye Irritation, Category 2A
Respiratory Sensitization, Category 1
Target Organ Toxicity (Single exposure), Category 3
Carcinogenicity, Category 2

Label elements



Health
hazard



Skull and
crossbones

Signal word: DANGER

Hazard statement(s)

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.
H335: May cause respiratory irritation.
H351: Suspected of causing cancer.

Precautionary statement(s)

Prevention:

P202: Do not handle until all safety precautions have been read and understood.
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.
P284: In case of inadequate ventilation wear respiratory protection.

Response:

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P302+P352: IF ON SKIN: Wash with plenty of water.
P362: Take off contaminated clothing.
P333+P313: If skin irritation or rash occurs: Get medical advice.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310: Immediately call a POISON CENTER or doctor.
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 advice.
P308+P311: IF exposed or concerned: Call a POISON CENTER or doctor.

3. Composition/information on ingredients

| Chemical name | % w/w | CAS No. |
|-------------------------------------|---------|------------|
| TDI Prepolymer | 60 - 75 | |
| Diisononyl Phthalate | 10 - 20 | 28553-12-0 |
| Toluene Diisocyanate, Mixed Isomers | 5 - 9 | 26471-62-5 |

4. First-aid measures

Eye: Immediately flush eyes with plenty of water. Remove contact lenses, if present. Seek medical advice if irritation persists.
Skin: Immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Seek medical advice if irritation or rash occurs.
Ingestion: If person is conscious, wash out mouth with water. Do not induce vomiting. Immediately call a poison center or doctor.
Inhalation: Move person to fresh air. Immediately call a poison center or doctor. Respiratory symptoms may be delayed for several hours.

5. Fire-fighting measures

Suitable extinguishing media: Water fog, foam, dry chemical and carbon dioxide.
Explosion hazards: Water contamination produces carbon dioxide gas. This may cause pressurization or explosion of containers.
Fire fighting equipment: Fire fighters must wear NIOSH-approved positive pressure self-contained breathing apparatus with full-face mask and full protective clothing.

6. Accidental release measures

Small spill: Isolate the area and prevent entry of unnecessary and unprotected personnel. Do not walk through or otherwise scatter spilled product. Ventilate the area. Absorb with dry chemical absorbent or any other dry inert material. Place in a chemical waste container.
Large spill: Same procedure as for a small spill. Prevent entry into waterways, sewers, basements and confined areas.
General procedures: Clean spill area with a decontamination solution. Suggested formula: Sodium carbonate (5-10%), liquid detergent (1-2%), water (88-94%). Alternate formula: Concentrated ammonia (3-8%), liquid detergent (1-2%, water (90-96%). Ensure adequate ventilation to prevent overexposure to ammonia.
Comments: 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 form. Allow the waste container to stand loosely covered for 48 hours before closing. Reaction with water can be slow. Build up of carbon dioxide in a closed container can cause rupture.

7. Handling and storage

Precautions for safe handling: Do not get in eyes, on skin or on clothing. Wash hands before eating, drinking or smoking. Do not breathe vapors or mist. Use only with adequate ventilation. Keep container closed when not in use. Do not reseal if contaminated.

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Keep away from heat and flame.

Conditions for safe storage: Store in tightly closed containers in a 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) Minimum to 37.7°C (100°F) Maximum

8. Exposure controls/personal protection

Exposure controls

| Control parameters | | | | |
|-------------------------------------|------------------------------------|------|----------------------|-------|
| | Occupational exposure limit values | | | |
| Chemical name | Type | | ppm | mg/m³ |
| Toluene Diisocyanate, Mixed Isomers | ACGIH TLV | TWA | 0.001 ^[1] | [1] |
| | | STEL | 0.005 ^[1] | [1] |
| Footnotes: | | | | |
| 1. Inhalable fraction | | | | |

Appropriate engineering controls: Local exhaust ventilation used in combination with general ventilation as necessary to control air contaminants.

Individual protection measures, such as personal protective equipment

Eye / face protection: Wear a face shield and chemical safety glasses or goggles.

Skin protection - hand protection: Wear impervious gloves. Cover exposed skin.

Respiratory protection: 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.

Occupational hygiene practices: Avoid eating, drinking or smoking while using this product. Wash hands thoroughly after handling.

9. Physical and chemical properties

Physical state: Liquid

Color: Pale yellow

Odor: Slightly pungent

Freezing point: Not established

Initial boiling point and boiling range: Not established

Flash point: > 93.3°C (200°F)

Vapor pressure: < 0.014 hPa at 20°C (68°F)

Relative vapor density: Heavier than air

Relative density: 1.07 (water = 1) at 25°C (77°F)

Solubility: Insoluble

Auto-ignition temperature: Not established

Dynamic viscosity: 3000 cP at 25°C (77°F)

10. Stability and reactivity

Dangerous polymerization: Can be caused by elevated temperatures

Chemical stability: Stable

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Hazardous decomposition products: Carbon oxides, nitrogen oxides, isocyanates, formaldehyde 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 122 °F (50 °C), but is accelerated at higher temperatures.

11. Toxicological information

Acute toxicity

| Chemical name | LD ₅₀ (oral) mg/kg(rat) | LD ₅₀ (dermal) mg/kg(rabbit) | LC ₅₀ (inhalation) mg/l |
|-------------------------------------|------------------------------------|---|------------------------------------|
| Diisononyl Phthalate | > 10000 mg/kg | > 3160 mg/kg | > 4.4 mg/l/4h (rat) |
| Toluene Diisocyanate, Mixed Isomers | 6170 mg/kg | > 16000 mg/kg | 0.1 mg/l/4h (rat) |

Carcinogenicity

| Chemical name | NTP | IARC |
|-------------------------------------|---|--|
| Toluene Diisocyanate, Mixed Isomers | Reasonable anticipated to be a human carcinogen | Group 2B - Possibly carcinogenic to humans |

12. Ecological information

Aquatic ecotoxicity

| Chemical name | 48-hour EC ₅₀ |
|-------------------------------------|---------------------------|
| Toluene Diisocyanate, Mixed Isomers | 12.5 mg/l (Daphnia magna) |

13. Disposal considerations

Disposal methods: 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.

14. Transport information

Comments: Not regulated as dangerous goods when shipped below RQ

15. Regulatory information

UNITED STATES

SARA Title III

311/312 Health hazards: Acute Toxicity (Inhalation), Carcinogenicity, Eye Irritation, Respiratory Sensitization, Skin Irritation, Skin Sensitization, Target Organ Toxicity (Single exposure)

EPCRA Section 313 Toxic Chemicals

| Chemical name | % w/w | CAS No. |
|-------------------------------------|---------|------------|
| Diisononyl Phthalate | 10 - 20 | 28553-12-0 |
| Toluene Diisocyanate, Mixed Isomers | 5 - 9 | 26471-62-5 |

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CERCLA Hazardous Substances and Reportable Quantities (RQ)

| Chemical name | % w/w | CERCLA RQ |
|-------------------------------------|-------|-----------|
| Toluene Diisocyanate, Mixed Isomers | 5 - 9 | 100 lb. |

TSCA (The Toxic Substances Control Act)

TSCA regulatory: All components are in TSCA inventory.

CAA 112(b) Hazardous Air Pollutants

| Chemical name | % w/w | CAS No. |
|-------------------------------------|-------|------------|
| Toluene Diisocyanate, Mixed Isomers | 5 - 9 | 26471-62-5 |

California Proposition 65

| Chemical name | % w/w | Listed |
|-------------------------------------|---------|----------|
| Diisononyl Phthalate | 10 - 20 | ● Cancer |
| Toluene Diisocyanate, Mixed Isomers | 5 - 9 | ● Cancer |

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

16. Other information

Approved by: Loretta Priest **Title:** Health and Safety Officer

Date revised: 06/20/2023

Additional SDS information:

| | |
|------------------|---|
| 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 |

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data on the material itself.



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